MAP No.

115 I 3

ASSESSMENT REPORT [X]
PROSPECTUS [ ]
CONFIDENTIAL [X]
OPEN FILE [ ]

DOCUMENT NO.: 091958

MINING DISTRICT: WHITEHORSE

TYPE OF WORK: DIAMOND DRILLING

REPORT FILED UNDER: Aurchem Exploration Ltd.

DATE PERFORMED: June 1 - July 20, 1987

DATE FILED: September 24, 1987

LOCATION	
LAT.	62°05'N
LONG.	137°10'W

AREA:

CLAIM NAME & NO.

RAS	1-4	YA93138-141
LGCS	1,3	YA95014, 016
MSL		YA95099
WEDGE	5-8, 10, 15	YA82171-174, 176, 181

VALUE $

WORK DONE BY: M. Langdon

WORK DONE FOR: Aurchem Exploration Ltd.

REMARKS: ~~#81 - J. Bill~~
GOULTER

Indian and Northern Affairs Canada / Affaires indiennes et du Nord Canada

M.R. file no.	340-13-2
R.M.M.R. file no.	
Date forwarded	7 March 88

TRANSMITTAL FORM

From ▶ Mining Recorder at:

To ▶ Regional Manager, Mineral Rights at Whitehorse, Y.T.

For action are:

- [ ] NEW APPLICATION FOR PLACER LEASE TO PROSPECT — Name:
- [ ] RENEWAL APPLICATION PLACER LEASE TO PROSPECT — Name: — Lease no.:
- [ ] AFFIDAVIT OF EXPENDITURE ON PLACER LEASE — Name: — Lease no.:
- [ ] SECURITY DEPOSIT
- [ ] FINANCIAL ABILITY
- [ ] ASSIGNMENT OF PLACER LEASE NO. — From: — To:
- [ ] GROUPING APPLICATION UNDER SEC. 52(2) PLACER MINING ACT. — Owner:
- [x] DIAMOND DRILL LOGS — Claims: Wedge, RAS, LGCS, HSL — Claim sheet no.: 115-I-3
- [ ] QUARTZ ASSESSMENT REPORT — Claims: — Claim sheet no.:

Type of report: — Submitted by:

Cls. work performed on: — $ req. for ren. application:

M Southwick
Signature

REPLY ACTION

Date returned:

SENT UP
25 SEPT. 87

091958

Signature

802-6027-26 (6-86)

1987 DIAMOND DRILL PROGRAM

Carried out on WEDGE #5, WEDGE #6, WEDGE #7
WEDGE #8, WEDGE #9, WEDGE #10, WEDGE #15,
RAS 1, RAS 3, RAS 4, LGCS 1, LGCS 3, and
MSL. Claim sheet 115 I/3, 62 05'N, 137
10'W, June 1, 1987 to July 20, 1987

Aurchem Exploration Ltd.
16-266 Rutherford Road South
Brampton, Ontario L6W 3X3

Mark Langdon
Manager - Geological Projects
September 15, 1987

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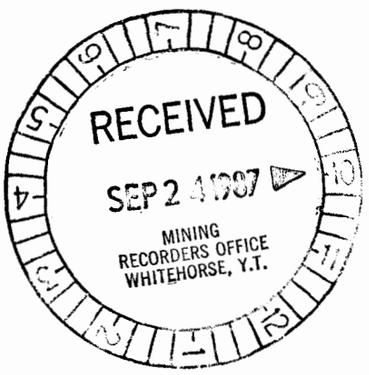

091958

List of Claims and Tag Numbers

RAS 1	YA93138)	Owned by Aurchem
RAS 2	YA93139)	Exploration Ltd.
RAS 3	YA93140)	Brampton, Ontario
RAS 4	YA93141)	
LGCS 1	YA95014)	
LGCS 3	YA95016)	
MSL	YA95099)	

WEDGE 5	YA82171)	
WEDGE 6	YA82172)	Owned by G. Dickson,
WEDGE 7	YA82173)	Whitehorse, Yukon
WEDGE 8	YA82174)	
WEDGE 10	YA82176)	
WEDGE 15	YA82181)	

Introduction

The claims and accompanying Leases were explored for Au/Ag mineralization during the summers of 1985 and 1986. During that time a grid was set up, an EM-16 survey was conducted, a limited soil geochemical survey was done, geological mapping and interpretation was attempted and trenches were dug and sampled. Many NNE trending vein structures were encountered of various types. Due to permafrost conditions and the highly erratic nature of the mineralization, it was found that trenching was very slow and gave limited success. A diamond drill program was therefore slated for 1987 exploration. This drill program was set up in a general widespread exploration style to

(a) determine the nature of the mineralization and the vein widths

(b) to relate the VLF and surface geochems to underlying conductors

(c) to see if there was any significant difference in Au/Ag mineralization in different vein zones

(d) to attempt to determine the effect of cross-faulting on the vein zones

Regional Geology

The claims are located within the eastern half of the Coastal Crystalline Belt, which trends northwesterly across Southwest Yukon. This belt can generally be said to contain lithologies of acidic to intermediate intrusive bodies of post-Triassic age intruding into sedimentary, volcanic and minor intrusive lithologies of the late Paleozoic age.

Location and Access

The claims are located in the valley of Discovery Creek, a tributary of Nansen Creek. Access is from Carmacks, going west on the Mount Nansen Road. Our claims are approximately 10 km by road past the Mount Nansen Mine site or 70 km west of Carmacks.

General Geology

Outcrops on the property are rare (1%) and are usually exposed as weathered regolith of large frost-heaved blocks.

The bulk of the property is non-glaciated and overburden consists of weathered in-situ rock and/or slumped rocks from nearby. The depth varies from 1 to 75 feet before some competent bedrock is observed. Epithermal alteration can be quite intense which promotes surface weathering. Within 150 feet of Discovery Creek glacial-fluvial material overlies the bedrock.

The property and the surrounding properties show Au/Ag epithermal style mineralization as NNE tending (Westerly dipping) veins.

The western edge of our claims show the Precambrian to Cambrian Yukon Group metasediments and metavolcanics. Extensive NNE trending faults were formed at this time which continued to be active in faulting all the later lithologies.

The Yukon Group was intruded by the Mount Nansen Group composed of a sub-intrusive hornblende diorite and its andesitic to basaltic extrusive flows. This group is of Jurassic age.

During the Cretaceous age, a long period of granite/granodiorite/monzonite intrusives occurred. Rhyolite in the form of sills and dykes accompanied the plutonic activity.

Continued plutonic activity from beneath earlier plutons caused major uplift of earlier lithologies including earlier granodiorite/granite and rhyolite. It appears that about in this period of time a primary epithermal/hydrothermal system of veins were formed of high quartz/pyrite/arsenopyrite content and low gold/silver values.

Continued uplift by plutonic activity caused a major uplift on our property as well as strong movement to the west-southwest. The diorite and its associated extrusives were lifted and pushed to the surface. Some large blocks of andesite slumped off the rising pile sliding considerable distances. The hill on the north-west part of our property appears to have been one of these slides travelling from the south-southwest about 5000 feet.

During this stage of uplift extensive south-west/north-east faults were formed. These faults accommodated the uplift but were majorly sites of lateral movement to the west of large blocks being pushed by the plutons.

As the plutonic/rhyolitic activity began to cease and cool, contraction caused collapsing of the uplifted areas. A new set of east-west faults were formed which were the site of minor lateral movements to the east and extensive normal dip-slip faulting. These faults occured as "distributive faults" and "rotational distributive faults" forming wide zones of shearing. This gave the veins a surface appearance of large "S" bends. (i.e. The change in paleo-elevation caused by the dip-slip faulting.)

It appears that during the period of maximum uplift through the cooling and collapsing time, a second phase of epithermal solutions evolved with high Au, Ag, Pb, and Zn values. This appears to have come in from a number of local discrete locations forming some new veins and enriching some previous veins. We assume the discrete locations were caused by lithologic and structural controls caused by the uplifting. The north-northwest set of faults once again seem to be the major vein controlling system possibly because they are more deep-seated than the other two major fault systems. Only minor veinlets have been found to date on our property associated with the east-west faults and these have been found shooting out from a major north-northwest trending vein zone.

Veins formed by the second epithermal phase "appear" (on limited data) to sub-parallel the earlier veins with their strike being within 10° - 15°.

On our property, the contact of the granodiorite and the diorite formed the site of a large linear rhyolite sill or dyke that strikes generally along the contact in a northwest-southeast direction. Off this rhyolite, of from a deeper rhyolitic source, thin dykes (from 6 inches to 15 feet) or rhyolite/rhyodacite/quartz porphyry rhyolite run down or near vein structures in a north-northeast direction. Some of these dykes are faily fresh but the majority of them are very altered from the epithermal solutions. Only low gold values (.003 - .03 oz/ton) have been found to date in assaying the rhyolite rocks.

Drilling Results

The diamond drill logs and assays are shown at the back of this report. Two maps in the back folder show the locations of the holes.

As stated earlier, the drilling was designed more for general widespread knowledge than for specific reasons.

Drilling on the property proved very difficult due mainly to the great number of faults in the area. Many of our holes were drilled at or near cross-faults to determine their significance which increased drilling problems. The data to date does not suggest increased mineralization (Au/Ag) at these faults.

The drill hole results have been very successful geologically in determining future work. Work on the results will be carried out over the winter months

but a few preliminary observations can be made of what appears to be unfolding.

Secondary epithermal veins are quartz/sulphide/sulphosalt with high Ag/Au and Pb/(Ag/Au) ratios. These veins have an intense argillic alteration halo above and flanking the veins, which we term "white mud" (jarosite - allanite - clay mixture?). Carbonate is absent from these veins and alteration halos. These veins appear (from the data) to come from a deeper source (telescoped?) and are pinching out near the present surface. At the surface they are composed entirely of the "white mud" with sub-economic Au/Ag values. Diamond drill hole #12 hit one of these veins at about 75 feet of verticle depth and a quartz-sulphide-sulphosalt vein was found flanked by the "white mud". Deeper holes on these veins are in the plans for our future work.

Our data suggests that the secondary epithermal veins are related to the rhyolite found at the grandoiorite/diorite contact. It is not known if this is caused by the rhyolite creating; (a) the secondary epithermal system, (b) the structural control, (c) the geochemical differences of the lithologies causing precipitation, (d) the change in lithology causing a lithological barrier for solution or (e) a combination of all these factors. We do not have, at this time, enough information on the west side of the rhyolite to determine if the same is true within the diorite.

From Willow Creek going west to the rhyolite (or diorite/granodiorite contact), the data suggests from a preliminary review, that; (a) the Ag/Au ratio is increasing (b) the Au and Ag values are increasing (c) the Pb/(Au or Ag) values are increasing (d) primary quartz veins are more intensely brecciated (e) The "secondary type" veins are appearing.

Work is presently being done on our soil geochems to see if the ratios mentioned may also show up in their values to delineate future zones for drilling. The small to non-existent EM-16 anomalies shown by our "white mud" secondary veins have been overshowed by large EM-16 anomalies formed by the high pyrite/arsenopyrite primary vein structures. A small experimental magnetometer survey is also presently underway to see if the exact location of the contact and/or rhyolite can be found.

Some deeper drill holes will be needed next year on zones for a correlation of width and assay value of veins with depth. At this time the data suggests both will increase. On a very general note the information suggest the farther we go from the rhyolite, the deeper the drill hole we need to hit economic values formed by the secondary enrichment. This is all very speculative and could change as future information comes in.

Future Work

At present we are anticipating a second diamond drilling project next summer with minor soil geochem and magnetometer work. This drill program will be more specific with 80% of the holes on untested veins in our "contact/rhyolite zone" with some deeper sections. The other 20% of the drilling will be of a more exploratory nature on other promising areas indicated by geochemical and geophysical responses.

The vein zone on Eliza Creek is one such location and a zone on the east branch of Willow Creek is another. It is possible that the rhyolite at the top of the hill south of our property comes down the east branch of Willow Creek until it hits a west-southwest lateral fault. Here the rhyolite is moved about 1100 feet west where it forms our main zone of interest. A couple of small EM-16 anomalies accompanied by strong geochemical values show this upper area at Willow Creek to be a possible good zone. The rhyolite(?) at Willow Creek may also be an entirely different dyke or sill.

Overall, our data to date has successfully narrowed down target zones for future work in our hope of finding economic reserves.

Core Storage

The diamond drill core has been stored at 16-266 Rutherford Road South, Brampton, Ontario. Further assaying and detailed logging and possible metallurgical studies will be done over the winter months.

Bibliography

Principal Features of Epithermal Lode Gold Deposits of the Circum-Pacific Rim (1982) David L. Giles, Carl E. Nelson.

Models of Precious Metal Epithermal Deposits.

Mineralogical Investigation of Sulphide and Oxide Ore for Mount Nansen Mines Ltd. (1969) Robard Schmidt.

Mount Nansen Gold-Silver Deposit (1971) F. Bianconi.

Feasibility Report - Mount Nansen Mine (1982) Dolmage, Campbell and Associated Ltd.

Factor Analysis of Stream Sediment Geochemical Data from the Mount Nansen Area, Yukon Territory, Canada (1974), Saager & Sinclair.

Sampling Analysis of Gold Ores (1986) Mark Hannington.

A Canadian Cordilleran Model for Epithermal Gold-Silver Deposits (1986) Andrejs Panteleyer.

Bostock (1936) Carmacks District, Yukon, Geological Survey, Canada. Mem. 169.

List of Expenditures

(a) Personnel Expenditures

Mark Langdon,	Manager - Geological Projects 511 Hayward Crescent Milton, Ontario Field work; supervision and implementation of diamond drill program, supervision of other survey, core logging. 34 days at $165/day	$ 5,610.
	Compilation of data and pre-field organization. 60 days at $165/day	$ 9,900.
Lee Schneider,	Geological Assistant Calgary, Alberta Field work, soil sampling, drill hole spotting, core splitting, drill core photography. 34 days 34 days at 105/day	$ 3,570
Rob Schneider,	Geological Assistant Acton, Ontario Field work, soil sampling, core splitting, drill hole transit survey, general 34 days at $100/day	$ 3,400.
	Office, data manipulation on computer, computer programming, drafting 35 days at 100/day	$ 3,500.
John Schneider,	President, Aurchem Exploration Ltd. Chemical Engineer, Metallurgist, field, diamond drilling supervision, soil sampling, general 13 days at $250/day	$ 3,250.
	Office, data manipulation and compilation 10 days at $200/day	$ 2,000.
Secretarial Office Costs - $1,000.		$ 1,000.
(A) Total Personnel Expenditures		$ 32,230.

(B) Rental Costs

1 Suburban 4 x 4, Norcan Leasing	$ 3,568.

(C) Miscellaneous Expenses

Hotels, fuel, meals, etc. for staff for 1.5 moths	$ 2,521.

(D) Cost of Flights to and from Yukon

Cost of all flights	$ 4,715.

(E) Drilling Costs

Cost of Diamond Drilling by Caron Diamond Drilling, Whitehorse, Yukon	$116,783.

(F) Assay Expenditures

All assays prepared in Whitehorse and sent to Ottawa laboratory for analysis. Bondar-Clegg & Co. Ltd., Whitehorse, Yukon (Au, Ag Pb, Zn, As)	$ 16, 476.

(G) General Equipment

Equipment bought for summer field exploration work	$ 2,700.

Summary of Expenditures

(A)	Personnel Expenditures	$ 32,230.
(b)	Rental Costs	3,568.
(C)	Miscellaneous Expenses	2,521.
(D)	Costs of Air Flights	4,715.
(E)	Drilling Costs	116,783.
(F)	Assay Expenditures	16,476.
(G)	General Equipment	2,700.
	Grand Total	$178,993.

For all expenditures receipts are available on request.

Mark Langdon
Geological Projects Manager
Aurchem Exploration Ltd.

APPENDIX I

Drill Logs

DIAMOND DRILL RECORD

NAME OF PROPERTY: DISCOVERY CREEK
HOLE NO.: DDH-87-9C LENGTH: 41
LOCATION: W8 Trench → into blue & white mud veins.
LATITUDE: 62° 05' DEPARTURE: 137° 10'
ELEVATION: 4100 AZIMUTH: N255° DIP: -45°
STARTED: July 7/87 FINISHED: July 8/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45	N255			

HOLE NO. DDH-87-9C SHEET NO. 1
REMARKS: Preliminary Log.

LOGGED BY: M. LANGDON.

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
0	9	GRANODIORITE (SILICEOUS) 9 ft represented by 24" - siliceous gd. with <2% mafic minerals.									
9	15	QTZ/SULPH/CALCITE VEIN. → Blue mud of W8 west. - sulph of pyrite & galena. 9'-12' → 10-12% sulph. 12'-15 → 30-40% sulph. → no blue mud (in all qtz/calcite/sulph)									
15	18.5	HIGHLY CHLORITIZED & RUSTY GRANODIORITE - reduced to a mush. - unknown % of sulph. - manganese specks throughout. - rusty orange/green colour.									
18.5	20	White Mud - white mud with blue mud patches and abundant manganese.									
20	22.3	ORANGE/RUST MUD. bright orange mud with bits of qtz rich gd.									
22.3	30.4	White MUD/SILVER VEIN - first ½ ft. is highly chloritized. - white mud with purplish/blue/red veins throughout. - [illegible]									

LANGRIDGES — TORONTO — 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY DISCOVERY CREEK.

HOLE NO. DDH-87-9C SHEET NO. 2

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
		- from 24.5 - 25.5 is >50% sulphides + sulphosalts.
30.4	33.2	ORANGE / RUST MUD. - contains minor pyrrhotite veins of above. - same as 20 - 22.3
33.2	36.5	CHLORITIZED GRANODIORITE - highly chloritic - olive green colour - <2% sulph. - slightly calcareous. - strongly magnetic.
36.5	41	Altered Granodiorite (Calcified) - baby blue/green altered granodiorite - very calcite rich (25%) - ~3-4% small black metallic specks → ? END OF HOLE (caving badly)

SAMPLE NO.	% SULPHIDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	ASSAYS %	%	OZ/TON	OZ/TON

LANGRIDGES — TORONTO — 366-1168

FORM 2

DIAMOND DRILL RECORD

NAME OF PROPERTY: DISCOVERY CREEK
HOLE NO.: DDH-87-9 LENGTH: 131 Ft.
LOCATION: From MSL Post #1 go 325 Ft at N293°
LATITUDE: 62° 05' DEPARTURE: 137° 10'
ELEVATION: 4100 AZIMUTH: N65° DIP: -50°
STARTED: JULY 3/87 FINISHED: July 5/87.

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-50°	N65°			

HOLE NO. DDH-87-9 SHEET NO. 1
REMARKS: Preliminary Log.

LOGGED BY: M. LANGDON.

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
0	10	NO CORE RECOVERY → OVERBURDEN.									
10	16	SILICEOUS GRANODIORITE. - no calcite - magnetic - very hard; siliceous - pinkish feldspars in granodiorite - hornblende fairly fresh. < 1% dis. pyrite + magnetite.									
16	20	BROKEN SILICEOUS GRANODIORITE → reduced to chips with orange/yellow rust - no calcite.									
20	22	SILICEOUS GRANODIORITE (same as 10-16)									
22	23	BROKEN SILICEOUS GRANODIORITE - minor fracturing. - same as 16-20									
23	47.5	SILICEOUS GRANODIORITE - minor fracturing, same as 10-16 - visible sulph. specks + rust < 1% - core angle ≈ 60-70° of minor fractures - (35°) - alteration increases slightly down the hole → more fracturing									
47.5	51.5	FAULT ZONE → granodiorite sheared & altered/some to a yellow/green mud. (with broken up rock.									

LANGRIDGES — TORONTO — 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY DISCOVER. CREEK

HOLE NO. DDH-87-9 SHEET NO. 2

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		- minor pyrrhotite comp 5% sulph (overall ≈ 3%)									
		- calcareous.									
		- slightly chloritized.									
51.5	70.0	CHLORITIZED GRANODIORITE									
		- highly chloritized									
		- dark green colour									
		- calcareous → high in places & rock gets very soft & mushy.									
		- very magnetic									
		≈ 3% disseminated sulph.									
70.0	70.5	VERY ALTERED GRANODIORITE									
		- baby blue/green altered diorite									
		- mostly white colour.									
		- calcareous									
		- 3% dis. sulph.									
70.5	72.3	CHLORITIZED GRANODIORITE (same as 51.5 - 70)									
72.3	73.5	SLIGHTLY CALCAREOUS SILICEOUS GRANODIORITE									
		- contains one 4mm black sulphide vein on fracture.									
73.5	75.	VERY ALTERED GRANODIORITE									
		- same as 70-70.5 contains 5% sulph.									
		- core angle = 70°									
75	76.3	DARK BLUE MUD									
		- 20% sulph.									
76.3	78	LIGHT BLUE MUD									
		- 5% sulph.									
78	83	VERY ALTERED GRANODIORITE									
		- light green colour (baby blue/green granodiorite)									
		- very soft & altered to mud in places.									
		≈ 3% sulph.									
		- same as 70-70.5									

LANGRIDGES — TORONTO — 366-1168

FORM 2

DIAMOND DRILL RECORD

NAME OF PROPERTY DISCOVERY CREEK.

HOLE NO. DDH-87-9 SHEET NO. 3

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
83	86	MED. BLUE MUD WITH MINOR QTZ/SULPH VEINS. ≃ 1% sulph									
86	95.5	LIGHT BLUE MUD/VERY ALTERED GRANODIORITE <5% sulph.									
95.5	96.5	CHLORITIC MUD - very fine grained mud - light olive green colour. - contains small clasts (<.5cm) of qtz/sulph throughout. ≃ 5% sulph.									
96.5	99.8	MED BLUE MUD. - 2" calcite vein shows core angle of 80° (some left vein) - overall about 5-10% sulph.								1	1
99.8	122	LIGHT BLUE MUD/VERY ALTERED GRANODIORITE - same as 86-95.5 3-5% sulph. - light baby blue/green granodiorite altered to a soft mush.									
122	131	BROKEN SILICEOUS GRANODIORITE IN MUD. <3% sulph. (same as 99.8-122 but no carbonate - broken up bits of siliceous granodiorite in a white mush equivalent - minor sulph veinlets - pyrite/chlorite on fractures. — END OF HOLE (CAVE-IN)									

LANGRIDGES — TORONTO — 366-1168

FORM 2

DIAMOND DRILL RECORD

NAME OF PROPERTY: DISCOVERY CREEK.
HOLE NO.: DDH-87-8 LENGTH: 217 Ft.
LOCATION: From MSL Post #1 go 2300 Ft at N290°
LATITUDE: 62° 05' DEPARTURE: 137° 10'
ELEVATION: 4200 AZIMUTH: N240° DIP: -45
STARTED: July 11/87 FINISHED: July 12/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45	N240			
217	-44°	N240			

HOLE NO. DDH-87-8 SHEET NO. 1
REMARKS: Preliminary Log
LOGGED BY: M. LANGROM[illegible]

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	% SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
0	6	Overburden.									
6	8.6	DIORITE - fairly fine(?) - <1% pyrite. - magnetite - dark green/black colour - very hard & siliceous.									
8.6	11	Altered Diorite - most is orange/rusty brown colour but also spots of bleached white altered diorite - 3-5% sulph(?). - qtz/calcite veins - pervasive in [illegible] - last 6" is [illegible]									
11	27.5	DIORITE - - calcite filled fractures. - same as 6-8.6									
27.5	32.8	Altered DIORITE - HIGHLY CALCAREOUS → 27.5 - 28.3 → light olive green calc[illegible] diorite ([illegible]). → 28.3 - 29 → carb vein → 29 - 32 → light gray diorite ([illegible]) → 32 - 32.8 → same as 27.5 - 28.3 (magnetite → 5% magnetite) core angles: 29' (calcite = 30°); 30' = 60°; 32' = 60°									
32.8	33.4	DIORITE - same as 6-8.6									

LANGRIDGES — TORONTO — 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY DISCOVERY CREEK.

HOLE NO. DDH-87-8 SHEET NO. 2

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
33.4	37.3	Altered DIORITE - soft & crumbly - same as 27.5-28.3 - light olive green/grey diorite - very calcareous. - 2% mfgd plus 5-7% magnetite. - at 37' is a core angle of 60°									
37.3	39	DIORITE - same as 6-8.6									
39	42	Altered DIORITE - altered diorite as in 33.4-37.3 with small fresh bits of diorite.									
42	45.5	DIORITE - same as 6-8.6									
45.5	47.5	Altered DIORITE - core angle of 1" calcite vein at 47.1 is 20° - minor visible mfgd (may specks throughout)									
47.5	51	Diorite - minor fractures + pyrite specks (calc filled fractures) - pervasive calcite.									
51	54	Slight Altered Diorite similar to 45.5-47.5 but not as altered - calc vein at 20° → calc appears sheared (at 20° on 20° plane)									
54	55	Diorite same as 6-8.6									
55	57	Slight Altered Diorite - same as 51-54 - <1% mfgd specks.									
57	59.8	Diorite - same as 6-8.6									

LANGRIDGES — TORONTO — 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY DISCOVERY CREEK

HOLE NO. DDH-87-8 SHEET NO. 3

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
59.8	62.5	Slightly Altered Diorite									
62.5	67	Altered Diorite - minor magnetite & hematite specks in calcite veins.									
67	71	VERY SLIGHTLY Altered Diorite - pervasive calcite. - broken up in pieces with calcite dust on broken surfaces. - calcite fractures are still very clean.									
71	74.2	Diorite (same as 6-8-6) - fresh diorite - minor calcite fractures (not pervasive) - no sulph seen									
74.2	76.5	Very Slightly Altered Diorite same as 67-71									
76.5	84.5	DIORITE - last 2ft has calcite fractures.									
84.5	88.4	MIXTURE OF Altered & Slightly Altered Diorite									
88.4	141.5	DIORITE (same as 6-8-6) - minor calcite veins & stringers at various angles. - very slight pervasive calc. - very rare sulph specks. - at 133' core angle of calcite veins = 20° - at 130' very small hematite specks replacing ferromags can be seen (continues from here on). - becomes very chloritized (black/green colour) from about 90' and on. - for the last 4' the diorite is getting very "gritty"									
141.5	143.3	Altered DIORITE - 3-5% sulph.									
143.3	155	Altered VOLCANICS/DIORITE - core angle at 144 = 20° - pale creamy grey/buff colour.									

LANGRIDGES — TORONTO — 366-1168

FORM 2

DIAMOND DRILL RECORD

NAME OF PROPERTY DISCOVERY CREEK.

HOLE NO. DDH-87-8 SHEET NO. 4

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
		- diss. sulph + blebby sulph veins + veinlets (possible sulphosalts)										
		- 143.3 - 145 → 5-10% sulph.										
		- 145 - 146 → 25 % sulph → with galena, sphalerite + possible sulphosalts.										
		- 146 - 150 → same as 143.3-145, 15% sulph.										
		- 150 - 151 → 40% sulph.										
		151 - 155 → 5-10% sulph.										
		- core angle at 151' = 25°										
		- slightly calcareous (dolomitized) with some calcite veins.										
155	157.2	ALTERED DIORITE										
		very calcareous.										
		- 3-4% sulph										
		- same as 141.5-143.3										
157.2	158	DIORITE										
		slight pervasive carbonate										
		- same as 6-8.6										
158	159	ALTERED Diorite / SLIGHTLY ALTERED DIORITE										
		- very calcareous.										
		- limonite streaks										
		- 5% limonite/magnetite/pyrite sulph.										
		- pale green colour with calcite veinlets										
		- sulphide spots.										
159	161	VERY SLIGHTLY ALTERED DIORITE										
		- pervasive carb + veinlets										
		- minor sulph.										
161	162	ALTERED DIORITE										
		same as 155-157.2										
162	163.8	ALTERED Volcanics / Diorite										
		- core angle at 45°										
		- same as 143.3 - 155										
163.8	165.3	DIORITE WITH CARB VEINS.										
		- minor sulph specks. core angle = 35°										
165.3	166	SLIGHTLY ALTERED DIORITE										
		- very calcareous										

LANGRIDGES — TORONTO — 366-1168

FORM 2

DIAMOND DRILL RECORD

NAME OF PROPERTY DISCOVERY CREEK.

HOLE NO. DD1+-87- 8 SHEET NO. 5

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
166	171.8	DIORITE - pervasive carb - magnetite rich - minor pyrite & hematite - carb veins from 30-45° core angle.									
171.8	172.5	Altered DIORITE. - same as 155-157.2 - 5-8% dis. sulph/magnetite.									
172.5	180.5	Altered Volcanics/Diorite - core angle of 35-40° - qtz/sulph/carb veins throughout - dis sulph throughout. - 10-20% sulph - same as 143.3-155									
180.5	181	Altered DIORITE									
181	188.5	DIORITE - hard siliceous diorite with qtz/carb veins - minor sulph in or near veins (3%) → pyrite. - core angle = 35°									
188.5	189.5	Altered DIORITE - 3-5% sulph.									
189.5	193.5	Altered Volcanics/Diorite - 10-12% sulph. - pale white/grey colour. - at 193' → definitely volcanic → 2 core angles at 45° and 70° - same as 143.3-155									
193.5	197.6	INTERMEDIATE VOLCANICS - dark grey colour. - pervasive carb & carb veins - < 2% pyrite & hematite.									
197.6	199.2	Altered DIORITE - same as 188.5-189.5									

DIAMOND DRILL RECORD

NAME OF PROPERTY DISCOVERY CREEK.

HOLE NO. DDH-87-8 SHEET NO. 6

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		-3% sulph plus 5-8% magnetite.									
199.2	200.	Altered Volcanics/Diorite -5% sulph. -Same as 143.3 - 155									
200	203.4	INTERMEDIATE VOLCANICS -dark green/grey colour -very calcareous. -qtz/carb stringers throughout -min sulph (2-3%) mag magnetite.									
203.4	206	BLEACHED INT VOLCS. -light pale creamy green colour. -3-5% sulph. -very calcareous.									
206	217	INT. VOLCS. -dark brownish/green colour. -very calcareous with calcite veins -plag. laths throughout -min sulphide specks. END OF HOLE (misdrilled & broken bevel gear)									

LANGRIDGES – TORONTO – 366-1168

FORM 7

DIAMOND DRILL RECORD

NAME OF PROPERTY: DISCOVERY CREEK.
HOLE NO.: DDH-87-7 LENGTH: 240 Ft.
LOCATION: FROM MSL POST #1 go 350 Ft. at. N252°
LATITUDE: 62° 05' DEPARTURE: 137° 10'
ELEVATION: 4100 AZIMUTH: N65 DIP: -50°
STARTED: JUNE 16/87 10:00 AM FINISHED:

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-50°	N245°			

HOLE NO. 3 SHEET NO. 1
REMARKS: Preliminary Log

LOGGED BY: M. LANGDON

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
0	8	No Core (overburden - rubble)									
8	14	GRANODIORITE - (Slightly Silicified) - relatively fresh green/grey granodiorite with a slight silicification mostly as thin veins. - thin veins of Albite/quartz/magnetite/minor pyrite usually less than 1/4 cm wide at 9°/11.5/numerous 1mm fractures (60° to core) - hornblende relatively fresh (minor alteration) - no calcite - magnetic only on veinlets.									
14	21	Partially Chloritized Granodiorite - same as above with Albitized patches & veins - magnetic only in Albitic patches. - hornblende in Albitic patches are altered to Albite/magnetite/rare hematite/rare pyrite. - <1% sulphides. - Albitic veins at 60° to core. - 3" wide rust zone at 17.3 Ft.									
21	22.3	TOTALLY ALTERED GRANODIORITE - rusty red/buff brown colour									
22.3	27.4	Granodiorite (Slightly Silicified) - same as 8-14									
27.4	31.5	TOTALLY ALTERED GRANODIORITE - same as 21-22.3 and some competent sections.									

LANGRIDGES — TORONTO — 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY DISCOVERY CREEK.

HOLE NO. DDH-87-7 SHEET NO. 2

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS • %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
		- granodiorite that has had small qty veins intruding and then has been hydrothermally altered → qty is not altered but everything else (feldspars + hornblende) have been totally replaced.										
		- minor sulphides (2%) and minor magnetite + manganese.										
		- veins (qty) at 60° to core.										
31.5	34	Granodiorite (Slightly Silicified)										
		- same as 8-14										
34	36	TOTALLY ALTERED GRANODIORITE										
		- same as 27.4 - 31.5										
36	39.8	Granodiorite (Slightly Silicified)										
		- but slightly calcareous (minor carbonate veinlets)										
		- same as 8-14										
39.8	57	Totally Altered Granodiorite (same as 27.4-31.5)										
		* at 44.8 to 45.5 is a qtz vein with minor sulphides of pyrite and galena (≈ 1-2%) core angle = 60°										
		- also rock is slightly calcareous (not qtz vein)										
		- qtz veins also at 54.4 (≈") and minor other ½cm veins.										
		→ quartz is solution formed qtz.										
57	57.5	QUARTZ/SULPHIDE VEIN										
		≈ 3-5% sulphides in grey + buff coloured quartz vein										
		→ fine grained pyrite/galena?										
57.5	60	Totally Altered Granodiorite (same as 27.4-31.5)										
60	76	SAME AS 8-14										
		- rock here is more fractured & broken										
		→ fractures contain calcite (rusty colour) & large pyrite sometimes										
		- minor <1cm qtz/sulfd veins										
76	77	ALTERED MUSHY/WHITE GRANODIORITE WITH 6" qtz/sulfd vein.										
		≈4% pyrite/galena?										

DIAMOND DRILL RECORD

NAME OF PROPERTY DISCOVERY CREEK

HOLE NO. DDH-87-7 SHEET NO. 3

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
77	78	RUSTY BROWN SHATTERED GRANODIORITE - similar to 8-14 but no fresh pieces.									
78	79	Totally Altered Granodiorite - same as 27.4-31.5									
79	82	FRESH GRANODIORITE - slightly chloritized & calcareous. - basically the same as 8-14									
82	83.8	Totally Altered Granodiorite (same as 27.4-31.5) - at 82.5 is a 1" qtz/sulph/calcite vein									
83.8	84.2	Fresh Granodiorite (Same as 79-82)									
84.2	88	Totally Altered Granodiorite (Same as 27.4-31.5)									
88	100	Partially Chloritized Granodiorite (same as 14-21) - a couple of 3" wide shear zones with calcite/qtz/sulph (sample D7-87-46)									
100	104	Totally Altered Granodiorite (same as 27.4-31.5) (only 1ft in core → 25% recovery)									
104	108.5	Partially Chloritized Granodiorite - calcite rich - same as 14-21									
108.5	120	HARD & SOFT BLUE MUD - not true blue mud (start of blue mud is mixed - similar to 27.4-31.5 - soft muddy parts contain 8% sulphides. - harder blue/green sections < 1% sulphides.									
120	121	SULPHIDE QTZ. VEIN - 50% is qtz/sulph vein. - 20-25% sulphides.									

LANGRIDGES — TORONTO — 366-1168

FORM 2

DIAMOND DRILL RECORD

NAME OF PROPERTY: DISCOVERY CREEK.

HOLE NO. DDH-87-7 SHEET NO. 4

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	% SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
121	126	SILTY SAND MUD - this 5 ft section has about 5-10% recovery. - (like beach sand) → 5-10% sulphides. - grey/brown colour.									
126	132	SILTY SAND MUD WITH GRANODIORITE PEBBLES. 75% are sub-rounded granodiorite pebbles with no sulphides set in a matrix of 121-126 (121-132: Possible Fault. 9/or Paleo Creek.)									
132	133	Calcareous Altered Granodiorite - soft lime green/white granodiorite - minor sulphide specks & blebs. (≤1%) - similar to our hard blue mud in W8.									
133	134	SILTY MUD WITH GRANODIORITE PEBBLES - 50% pebbles (same as 126-132 but more mud)									
134	137	Calcareous Altered Granodiorite Same as 132-133									
137	142	PEBBLES OF GRANODIORITE - essentially the same as 126-132 but <5% mud. - this 5 ft has about 25% core recovery so mud & sand may be lost									
142	144.8	Altered Granodiorite - essentially the same as 132-133 but only slightly calcareous - lime green/white colour. ≈ 2% sulphides & 2% black metallic (magnetite?) - not magnetic.									
144.8	152	BLUE MUD VEIN - at 144.8 - 14[illegible] is 60 [illegible] - 146.3 - 148 is 3[illegible] sulphides.									

LANGRIDGES – TORONTO – 366-1168

FORM 2

DIAMOND DRILL RECORD

NAME OF PROPERTY Discovery Creek.

HOLE NO. DDH-87-7 SHEET NO. 5

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		- contains 1cm pebbles of granodiorite (10%)									
		→ 148 - 150.8 → blue mud with 10% sulphides.									
		→ 150.8 - 152 → high grade blue mud 40% sulphides. (50% hard blue mud)									
152	157.3	Calcareous Altered Granodiorite									
		- with sulphide patches + streaks									
		≈ 3-4% sulphides.									
		- lime green/white colour with grey patches									
157.3	162	Qtz/sulphide Vein & Blue MUD & Altered Granodiorite									
		- 1" wide qtz vein in 2 places.									
		- 20% sulphides.									
		- alternating BM/qtz vein/granodiorite with sulphides (6" bands)									
162	166	Altered Granodiorite & Light Blue Mud									
		- light green/blue mud with altered granodiorite clasts.									
		- sulphide patches & stringers									
		- overall about < 5% sulphides.									
166	170.5	Calcareous Altered Granodiorite with Minor Qtz/Sulph. bands.									
		- 4 or 5 bands of Qtz/sulphides < 1" wide in granodiorite.									
		- overall ≈ 3% sulphides.									
170.5	174	same as above but only 20% core recovery									
174	180	QTZ/SULPHIDE/CALCITE VEIN.									
		- dark grey colour with white veinlets of qtz/calcite									
		- brecciated clasts within core material									
		- core angle of qtz/calcite are at 45°									
180	183	SAME AS ABOVE BUT...									
		→ sulphides decrease down the core and rock becomes less siliceous & turns to granodiorite.									

DIAMOND DRILL RECORD

NAME OF PROPERTY DISCOVERY CREEK.

HOLE NO. DDH-87-7 SHEET NO. 6

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
183	196	CALCAREOUS ALTERED GRANODIORITE - minor sulphide specks throughout (more in the first ½) - sulphides decrease down the core from 4% to < 1%.									
196	201	ALTERED "MUSHY" GRANODIORITE - a light blue/green granodiorite with no visible sulphides - soft like mud									
201	202.8	CALCAREOUS COMPETENT GRANODIORITE - slightly calcified unaltered granodiorite. - rare sulphide specks.									
202.8	209.5	Altered "Mushy" Granodiorite ~~none~~ as 196-201 with a couple of 1" qtz/sulphide veins & sulphide patches. ≈ 3% sulphides.									
209.5	220	ALTERED RHYOLITE - light green to dark green rhyolite - very fine grained like clay - sulphides (if in grey patches) are too fine to see. - altered totally to a semi-competent soft rock - 209.5-214 is mostly light green in colour and gets darker grey from then on.									
220	240	ALTERED GRANODIORITE - yellow/green altered granodiorite - calcareous patches & fractures. - sulphide specks throughout <3% (minor stringers) - hematite staining throughout → END OF HOLE → ABANDONED DUE TO RODS STICKING.									

DIAMOND DRILL RECORD

NAME OF PROPERTY: DISCOVERY CREEK
HOLE NO.: DDH-87-9B LENGTH: 151 Ft.
LOCATION: N312° for 225 Ft. from MSL POST #1
LATITUDE: 62° 05' DEPARTURE: 137° 10'
ELEVATION: 4100 AZIMUTH: N65° DIP: -45°
STARTED: July 5/87 FINISHED: July 6/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45°	N65°			

HOLE NO. DDH-87-9B SHEET NO. 1
REMARKS: Preliminary Log.

LOGGED BY: M. LANGDON.

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	% SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
0	6	HARD SILICEOUS GRANODIORITE -no calcite. -fairly fresh looking -slightly silicified with pinkish feldspars. <1% diss. pyrite specks.										
6	14	RUSTY BROKEN VERSION OF ABOVE -no calcite -generally the rock is the same as above but is 90% reduced to rusty brown coloured mush. -most sulphides have been oxidized <3% sulph + oxides → patches where rock is fractured + altered but no carbonate.										
14	22	Altered Granodiorite (sheared areas) -baby blue/green gd -very rusty & broken up. -sulphide/qtz veinlets with very minor calcite. -most is rusty brown coloured mush. -at 15' is a 1cm qtz/sulph veinlet at 80° core angle. at 17' core angle of rock is ≃ 50° (rock is [illegible] sheared) at 19.5' core angle of rock is ≃ 40° -very fractured (many fine [illegible] with limonite infilling, [illegible]) ≤3% sulph + oxides.										

LANGRIDGES – TORONTO – 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY DISCOVERY CREEK.

HOLE NO. DDH-87-9B SHEET NO. 2

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
22	25	SAME AS ABOVE BUT HEMATITE RICH - very fractured & infilled with blood red hematite (5-8%) - very minor sulph specks. - no calcite - core angle at 22' = 75°									
25	45	CALCAREOS ALTERED GRANODIORITE WITH HEMATITE - as on 22-25 but calcite rich & soft & mushy; - baby blue/green altered gd with sulph/hematite veinlets ≈ 4% sulph plus 3% hematite. - very calcareous - at 31.8 is a 1.5" calcite vein with minor sulph/hematite with a good core angle ⇒ 40° - at 34' good core angle ⇒ 60° - at 34.5 is a 1" wide sulph/qtz/calcite vein ≈ 34' hematite seems to die out & sulphides increase. (minor hematite/mil patches). - from 34' - 45' are numerous sulphide bands → at 39.6 & 41.2 are 3" wide blad sulph bands - at 40' qtz/sulph vein with core angle 35-40°									
45	51	Light Green Silicified GRANODIORITE WITH SULPH. STREAKS - 3-4% sulph diss. in fine fractures - very minor calcite. - buff white to light pale green colour. - last 6" more 10-15% sulph.									
51	55	"MUSHY" SOFT VERSION OF ABOVE → reduced to mush & 5-10% sulph. (same as 45-51) - some blebs sulph.									

LANGRIDGES — TORONTO — 366-1168

FORM 2

DIAMOND DRILL RECORD

NAME OF PROPERTY: DISCOVERY CREEK.

HOLE NO. DDH-87-9E

SHEET NO. 3

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	% SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
55	56	LIGHT GREEN SILICIFIED GRANODIORITE 3-5% diss. sulph. specks. - same as 45-51.									
56	57	Altered Granodiorite - baby blue/green gd. - very soft - same as 51-55 but less sulph. (5-8%)									
57	63	SLIGHTLY CHLORITIZED LIGHT GEEN GRANODIORITE - same as 45-51 - highly chloritized patches & veins - very siliceous - rare calcite - ≥3% diss pyrite & hematite - at 59' in a core angle of 60° (good.)									
63	64	ALTERED GRANODIORITE - same as 56-57 3% sulph.									
64	66.5	SLIGHTLY CHLORITED LIGHT GREEN GRANODIORITE - same as 57-63, - 3-5% Sulph.									
66.5	69.5	ALTERED GRANODIORITE - same as 56-57 but ≤3% sulph. - broken up & mushy. - no carb. - chloritic patches									
69.5	84.5	GRANODIORITE - fairly fresh granodiorite - white or pale green with 20% black green ferromags. - fractures contain calcite & pyrite. - sulphides ≤2% - reduced to mushy patches in places where calcite fractures [illegible]									

LANGRIDGES – TORONTO – 366-1168

FORM 2

DIAMOND DRILL RECORD

NAME OF PROPERTY: DISCOVERY CREEK.

HOLE NO.: DDH-87-9B SHEET NO.: 4

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	% SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
84.5	85.5	QTZ/SULPH VEIN -no carbonate 10-20% sulphides.									
85.5	92	GRANODIORITE -same as 69.5-84.5 3-4% sulph. as qtz/sulph veinlets (minor calcite) -fractures becoming more common.									
92	103	CHLORITIZED GRANODIORITE same as 85.5-92 but becoming highly chloritized. -30% reduced to broken up mush. ≥3% diss. sulph. from 96 to 97' is a sheared chloritic gd. → faulted (sheared at core angle of 60°) -minor calcite.									
103	109	SLIGHTLY CHLORITIZED GRANODIORITE -in between the above two samples. -minor qtz/chlorite/sulph veinlets. <3% sulph. -½cm pyrrhotite sulph vein at 112.1									
109	118	Calcareous Chloritized Granodiorite -calc infilled fractures (with chlorite). <3% sulph. (same as 91-103 with carbonate) (-same as) -last 1' has 5% sulph. -at 118' a qtz/sulph vein → core angle = 65°-70°									
118	135.5	QTZ/SULPH VEIN -silicified dark grey granodiorite with diss. sulph + stringers. -not brecciated as in [illegible] -10-15% sulphides ([illegible]) → spots up to 20%									

LANGRIDGES – TORONTO – 366-1168

FORM 2

DIAMOND DRILL RECORD

NAME OF PROPERTY Discovery Creek.

HOLE NO. DDH-87-9B SHEET NO. 5

FOOTAGE		DESCRIPTION	SAMPLE					ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	%	%	OZ/TON	OZ/TON	
135.5	151	**Slightly Calcareous / Chloritized Granodiorite** minor sulph. [illegible] → 3-4 [illegible] - minor carb. - only slightly chloritized. END OF HOLE										

LANGRIDGES – TORONTO – 366-1168

FORM 2

DIAMOND DRILL RECORD

NAME OF PROPERTY DISCOVERY CREEK.
HOLE NO. DDH-87-3A LENGTH 231 Ft.
LOCATION From MSL Post ⇒ N165° for 1550Ft.
LATITUDE 62° 05' DEPARTURE 137° 10'
ELEVATION 4200 AZIMUTH N60° DIP -55
STARTED June 24/87 8:00PM FINISHED June 26/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-55	N60°			

HOLE NO. DDH-87-3A SHEET NO. 1
REMARKS Preliminary Log.

LOGGED BY M. CANGDON.

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
0	8	Overburden.									
8	14.5	SILICIFIED GRANODIORITE -dark grey/green colour -magnetic -slightly chloritized -abundant magnetite in fractures + dissemination -minor sulphide/magnetite veins. $<1\%$ pyrite + $2-3\%$ magnetite.									
14.5	29	Calcareous Chloritized Granodiorite -very calcareous -reduced to mush. -olive green colour with manganese/magnetite specks throughout -20% red oxidized patches -less than 3% dissem. sulphides.									
29	33.3	ALTERED DUSTY GRANODIORITE -fairly silicified granodiorite that crumbles and is buff orange/red colour. -dissem. sulph. throughout $\approx 5-8\%$									
33.3	38	Altered Granodiorite (Silicified) -pale green/blue granodiorite with qtz veinlets and disseminated sulph. -some silicification ($\geq 8\%$ sulph.) -brownish rusty coloured sections -$5-8\%$ sulphides -qtz/sulph veinlets throughout. (one 2" vein at 37')									

LANGRIDGES — TORONTO — 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY DISCOVER CREEK

HOLE NO. DDH-87-3A SHEET NO. 2

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
38	44.8	ALTERED GRANODIORITE - baby blue/green hydrothermal granodiorite - minor thin qtz/sulphd veinlets. - possibly sphalerite rich.									
44.8	49.5	ALTERED GRANODIORITE (SILICIFIED) (same as 33.3-38) ≈ 5-8% sulphides.									
49.5	57.4	ALTERED GRANODIORITE (Same as 38-44.8) - 5-8% sulphides - brown/red rusty patches.									
57.4	60.4	ALTERED GRANODIORITE (silicified) (Same as 33.3-38) ≈ 5% sulphide as stringers.									
60.4	66.3	BRECCIATED QTZ/SULPH/CALCITE VEIN - light & dark blue sulphide/quartz hydrobreccia with qtz & silicified calcite veins & pieces. - 15-20% sulphides. - core angle ≈ 60-65°									
66.3	71	HIGHLY CHLORITIZED GRANODIORITE - mostly reduced to grust or rubble. - almost no visible sulphides.									
71	72	ALTERED GRANODIORITE (silicified) (SAME-AS 33.3-38) - ≈ 1% sulphides - very soft & mushy.									
72	79.4	HIGHLY CHLORITIZED GRANODIORITE - minor calcite veins (Same as 66.3-71) < 1% sulphide specks.									
79.4	80.5	SILICIFIED GRANODIORITE ≈ 1% disseminated pyrite in veinlets of silicification - magnetic in places. (Same as 8-14.5)									

LANGRIDGES — TORONTO — 366-1168

FORM 2

DIAMOND DRILL RECORD

NAME OF PROPERTY DISCOVERY CREEK

HOLE NO. DDH-87-3A SHEET NO. 3

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
80.5	81.5	Calcareous Silicified Granodiorite -very calcareous (same as above but calcified) ≈ 2% diss. sulph.									
81.5	83	Silicified Granodiorite (Same as 8-14.5)									
83	84.5	HIGHLY CHLORITIZED GRANODIORITE -carbonate rich -2-4% magnetite (same as 66.3-71) < 1% diss. sulph.									
84.5	86.5	SILICIFIED GRANODIORITE (same as 8-14.5)									
86.5	89	HIGHLY CHLORITIZED GRANODIORITE (same as 83-84.5) -65° CORE ANGLE									
89	92	SILICIFIED GRANODIORITE (same as 8-14.5)									
92	98.5	ALTERED GRANODIORITE (SILICIFIED) (Same as 33.3-38) -light blue/green altered granodiorite -about every 1 ft is a thin veinlet (< ½ cm) of black sulph. ≈ 2% sulph.									
98.5	101	Broken up Chloritized & Rusty Granodiorite -minor sulphide veinlets throughout ≈ 3-5% sulph. -no calcite -core angle ≈ 60°									
101	106	ALTERED GRANODIORITE (SILICIFIED) 3-6% sulphides (Same as 92-98.5 with more sulph. stringers) -sulph stringers increase in # down hole.									
106	110	RUSTY "MUSHY" GRANODIORITE WITH SULPHIDES ≈ 15% sulphides -red rusty brown colour									
110	115	QTZ/SULPHIDE VEIN -minor calcite -10-25% sulphides -core angle 50°									

LANGRIDGES — TORONTO — 366-1168

FORM 2

DIAMOND DRILL RECORD

NAME OF PROPERTY DISCOV. RY CREEK

HOLE NO. DDH-87-3A SHEET NO. 4

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
115	121	ALTERED GRANODIORITE (SILICIFIED) - baby blue/green altered granodiorite - ≥ 5% sulphides as thin stringers. - no calcite. (same as 92-98.5')									
121	128	SILICIFIED GRANODIORITE WITH VEINLETS. - thin sulphide veinlets throughout - no calcite ≥ 5% sulphides.									
128	133	ALTERED GRANODIORITE - baby blue/green granodiorite with rusty coatings. - sulphide stringers throughout - 3-5% sulphides									
133	134	QTZ/SULPHIDE VEIN - 25% sulphides - broken up & rusty. - no calcite.									
134	138	ALTERED GRANODIORITE - 5% sulph. (same as 128-133) - streaks of black sulph as well as pyrite.									
138	143	RUSTY "MUSHY" GRANODIORITE WITH SULPHIDES 3-5% sulphides (same as 106-110) - red rusty & broken up. - mushy parts.									
143	145	HIGHLY CHLORITIZED GRANODIORITE - reduced to mush. - some shearing → probably a fault									
145	148.5	SLIGHTLY CALCAREOUS GRANODIORITE - pinkish feldspars - as you go down the hole it gets more silicified & rusty with minor veinlets.									

LANGRIDGES — TORONTO — 366-1168

FORM 2

DIAMOND DRILL RECORD

NAME OF PROPERTY DISCOVERY CREEK.

HOLE NO. DDH-87-3A SHEET NO. 5

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
148.5	152	ALTERED GRANODIORITE - minor sulphide stringers (up to 1" if qty. incl.) - minor calcite as fracture fillings (same as 128-133)									
152	153	SILICIFIED PATCH OF ABOVE - 5% sulphide as grey qtz.									
153	154	RUSTY "MUSHY" GRANODIORITE WITH SULPHIDES. (same as 106-110)									
154	156.8	ALTERED GRANODIORITE - the baby blue/green altered granodiorite but has been altered to a yellow colour - disseminated black sulphides throughout but no veinlets (3-5%). - no calcite.									
156.8	163.3	Calcareous Granodiorite - grey/green granodiorite - fairly fresh - calcite filled fractures - pervasive carbonate - minor black sulph. near veinlets (sphalerite?) <1% - Chloritic patches									
177	178.3	CHLORITIZED GRANODIORITE (Ver. Calcareous) see Pg. 5A INSERT. - olive green colour - 2" wide calcite/qtz/sulph vein at 177.1 - sheared strongly - disseminated sulph throughout ≈ 5% sulph. - core angle → 50°									
178.3	183.3	CALCAREOUS GRANODIORITE (same as 156.8-177)									
183.3	183.6	QTZ/SULPH/CALCITE VEIN - 5% sulph.									

DIAMOND DRILL RECORD

NAME OF PROPERTY DISCO. 24 CREEK

HOLE NO. DDH-87-3A SHEET NO. 3A INSERT

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
163.3	167.5	HIGHLY CHLORITIZED GRANODIORITE (Very Calcareous) - olive green colour. - veins of calcite (barren) up to 1" thick. - minor sulph. specks. < 1% sulph.										
167.5	168.5	AS ABOVE WITH 3" QTZ/SULPH/CALCITE VEIN. - galena in plate seen. < 5% sulph. - core angle = 45°										
168.5	177	Calcareous Granodiorite - at 172.2 is a 1cm wide red qtz vein (hematitic?) - same as 156.8 - 163.3										

LANGRIDGES — TORONTO — 366-1168

FORM 2

DIAMOND DRILL RECORD

NAME OF PROPERTY DISCOVERY CREEK

HOLE NO. DDH-87-3A SHEET NO. 6

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
183.6	185.5	ALTERED GRANODIORITE - highly chloritic < 1% disseminated black sulph. (mag?) = same as 154-156.8									
185.5	197.3	CALCAREOUS GRANODIORITE - calcite only in fine fractures - chloritized patches (same as 156.8-177 - fairly siliceous - fairly fresh looking. - < 1% dissem. sulph - hornblende fresh in many places.									
197.3	199	ALTERED GRANODIORITE (Calcareous) - pale blue mushy granodiorite (and pale green) - many hematite streaks - about 30% calcite - 3-5% sulph & hematite.									
199	201	HIGHLY CHLORITIC GRANODIORITE same as 183.6-185.5 ≈ 3-5% sulph.									
201	203	Silicified Granodiorite - no calcite - some fresh hornblende. - minor chloritized patches - at 202 a 3/4" red qtz vein (hematitic?) < 1% sulph.									
203	205	ALTERED GRANODIORITE - pale blue/green granodiorite - minor hematite & sulph. streaks.									
205	206	SILICEOUS FLOODING - flooded with red qtz (hematitic?) - minor sulph. veinlets ≈ 2-3% sulph.									

LANGRIDGES — TORONTO — 366-1168

FORM 2

DIAMOND DRILL RECORD

NAME OF PROPERTY DISCOVER CREEK

HOLE NO. DDH-87-3A SHEET NO. 7

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
206	215.6	Calcareous Granodiorite (fairly fresh) - minor chlorite alteration - <1% sulph. - at 207.5 m a ½" qtz/feldspar vein. - pervasive carbonate - some hornblende unaltered.									
215.6	220	ALTERED GRANODIORITE - baby blue/green granodiorite - minor sulph (blebs) ≈2% - a few qtz/calcite veins with minor sulphides									
220	221.6	CALCAREOUS GRANODIORITE (fairly fresh) (same as 206-215.6)									
221.6	226.8	ALTERED GRANODIORITE - same as 215.6-220 - numerous qtz/sulph/calcite veins throughout - very slightly calcareous (some veins have alot of calcite through) - core angle = 45°									
226.8	231	CALCAREOUS GRANODIORITE - 1-2% diss. sulph on fractures - same as 206-215.6									
		END OF HOLE									

LANGRIDGES — TORONTO — 366-1168

FORM 2

DIAMOND DRILL RECORD

NAME OF PROPERTY DISCOVERY CREEK

HOLE NO. DDH-87-2 SHEET NO. 2

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		- feldspars 80% altered to clays & other minerals - 3-5% sulphides & magnetite - not magnetic									
31.5	33	SLIGHTLY ALTERED GRANODIORITE (same as 8-10.5')									
33	38	BROKEN UP SLIGHTLY ALTERED G.D. (same as 13-14.8')									
38	40	SLIGHTLY ALTERED GRANODIORITE (same as 8-10.5)									
40	45.3	VERY ALTERED GRANODIORITE - occ 3 qtz sulphide veins - 3% sulphides. (same as 14-31.5									
45.3	56	ALTERED GRANODIORITE - 3-5% disseminated sulphides. - same as 14.8-16 - minor qtz sulphide stringers.									
56	62	SLIGHTLY ALTERED GRANODIORITE with qtz/sulphide stringers at 40° core angle. 3-5% sulphides. (same as 8-10.5)									
62	63.5	VERY ALTERED GRANODIORITE - minor qtz/sulphide stringers. 3-5% sulphides. (same as 14-31.5')									
63.5	66	SLIGHTLY ALTERED GRANODIORITE - slightly calcareous. - same as 8-10.5									
66	70	ALTERED GRANODIORITE - minor qtz/sulphide stringers - same as 14.8-16.									
70	74	VERY ALTERED GRANODIORITE - qtz/sulphide veining becomes more common towards the end. (same as 14-31.5') - at 73' is a 4" calcite vein with black manganese - 5-10% sulphides									
74	80	Qtz-Sulphide Vein - pyrite, galena, sphalerite in qtz calcite. >10% sulphides.									

LANGRIDGES — TORONTO — 366-1168

FORM 2

DIAMOND DRILL RECORD

NAME OF PROPERTY: DISCOVERY CREEK.

HOLE NO. DDH-87-2 SHEET NO. 3

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
80	90	SILICIFIED GRANODIORITE WITH MINOR QTZ/SULPH VEINS - very altered - buff brown to rusty colour - alot of qtz veinlets or filled fractures. ≈ 5% or greater of sulphides.									
90	92	SEMI BLUE MUD & QTZ SULPH. VEIN - mixture of above + blue mud.									
92	94	HIGHLY CHLORITIZED GRANODIORITE - dark green colour - very broken up - sulphide stringers < 5% sulphides.									
94	95.6	SEMI ALTERED GRANODIORITE - same as 14.8-16 - sulphide disseminated & infilled fractures. ≈ 3-5% sulphides.									
95.6	118	Calcareous/Chloritized Granodiorite - slightly chloritized & altered - slightly calcareous with calcite filled fractures. - calcite is a yellow rust colour. - ≈ 1% disseminated sulphides - many hornblendes still relatively fresh. - feldspars partially replaced by clays & carbonate. - some very altered patches → minor semi-barren qtz vein & silicified pebbles occur → more common as you go down the core. at a ore angle of 30°									
118	119	Same as above with 50% Qtz - Qtz is pink from hematite grains throughout									

LANGRIDGES — TORONTO — 366-1168

FORM 2

DIAMOND DRILL RECORD

NAME OF PROPERTY DISCOVERY CREEK

HOLE NO. DDH-87-2 SHEET NO. 4

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
119	138	Calcareous / CHLORITIZED GRANODIORITE - hematite stained more common here - minor sulphides (same as 95.6 to 118) ≈ 1% sulphides & 1% hematite - changes from very altered to competent but is all the same stuff.									
138	146	DACITE DYKE (ALMOST INT. VOLCANICS.) - fairly fresh med. green dacite with calcite/Qtz infilled fractures - rare specks of sulphide in fractures. - some zeolites from granodiorite within the dyke. - very calcareous (RHYOLITE PORPHRY DYKE!)									
146	162	CALCAREOUS / CHLORITIZED GRANODIORITE - rare sulphide stringers - some magnetite particles & veins. - same as 95.6-118									
162	171	CALCAREOUS GRANODIORITE - fresher & less chloritized - calcareous. - white in colour with green/black ferromags. → Hornblende partially altered to magnetite.									
171	172	PINK QTZ VEIN. - pink qtz vein (50%) / granodiorite (50%) - hematitic (same as 118-119)									
172	179	CALCAREOUS GRANODIORITE (same as 162-171)									
179	207.5	CALCAREOUS / CHLORITIZED GRANODIORITE - from 185.5 to 187 is a qtz / magnetite / pyrite stringer .5cm wide at 5-10° w.c. angle. (same as 95.6-118)									

LANGRIDGES — TORONTO — 366-1168

FORM 2

DIAMOND DRILL RECORD

NAME OF PROPERTY DISCOVERY CREEK.

HOLE NO. DDH-87-2 SHEET NO. 5

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		- hematite blebs on fracture surfaces.									
		- very calcareous.									
200 – 213		→ FAULT - sheared & broken up.									
207.5	208.5	PINK QTZ VEIN.									
		- pink qtz vein (hematite rich) (same as 118-119)									
208.5	213	SHEARED CALCAREOUS/CHLORITIZED GRANODIORITE									
		- sheared version of 95.6-118									
		- crushed & broken									
213	249	UNALTERED BIOTITE/HORNBLENDE GRANODIORITE - SLIGHTLY SILICIFIED									
		- relatively fresh grey coloured granodiorite with green/black ferromagnesians									
		- fractures infilled with calcite at 45° core angle.									
		- solution veins of siliceous chloritic material carrying minor sulphides and abundant magnetite at times									
		- very little chlorite but hornblende partially altered to magnetite.									
		- slightly magnetic									
		- slightly calcareous & very calcareous on fractures.									
		- very siliceous (about as feldspars.)									
		- veins vary from 70 to 45° core angle.									
249	251.5	SAME AS ABOVE BUT WITH MINOR BLUEMUD SEAMS									
		→ more altered & sulphides									
		- altered to a pale blue/green colour.									
251.5	267.5	ALTERED GRANODIORITE									
		- degree of alteration varys greatly									
		- all is very calcite rich									
		- from dark green black colour to pale green/blue									
		- sulphide stringers & patches throughout (2-3%)									

LANGRIDGES — TORONTO — 366-1168

FORM 2

DIAMOND DRILL RECORD

NAME OF PROPERTY DISCOVERY CREEK.

HOLE NO. DDH-87-2 SHEET NO. 6

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
267.5	275.3	TOTALLY ALTERED GRANODIORITE WITH BLUE MUD SEAMS - pale white/green/grey colour - blue mud seams upto 1" wide at core angle of 50° - 5-10% sulphides.										
275.3	278	DARK BLUE MUD - 30-50% sulphides 30% calcite.										
278	281	MED BLUE MUD - 15-20% sulphides - 60% calcite.										
281	284	HIGHLY CHLORITIZED GRANODIORITE - olive green colour - mostly chloritized to mush.										
284	285.4	MED BLUE MUD 10% sulphides.										
285.4	288.2	CHLORITIZED GRANODIORITE WITH LIGHT BLUE MUD SEAMS - 2 six inch mud seams										
288.2	293	Calcareous DIORITE - dark grey black diorite with calcite veins in fractures - calcareous throughout.										
293	302.8	CHLORITIZED DIORITE - as above with a few 10" parts altered to a chlorite calcite mush.										
302.8	303.9	TOTALLY ALTERED DIORITE - Diorite altered to a blue green mud. - minor sulphides (<2%) - very calcareous.										
303.9	307.5	DIORITE broken up pieces of chloritized & calcareous diorite - <2% sulphides.										

DIAMOND DRILL RECORD

NAME OF PROPERTY DISCOVER CREEK.

HOLE NO. DDH-87-2 SHEET NO. 7

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
307.5	308	DARK BLUE MUD WITH DIORITE CLASTS -25% sulphides.										
308	310	CHLORITIZED DIORITE - carbonate rich dark green diorite.										
310	311.5	TOTALLY ALTERED DIORITE - same as 302.8 - 303.9										
311.5	324.	CHLORITIZED DIORITE - with shattered & muddy spots as in 302.8-303.9 - very calcareous. - slightly magnetic. - same as 308-310										

DIAMOND DRILL RECORD

NAME OF PROPERTY: DISCOVERY CREEK

HOLE NO.: DDH-87-3 LENGTH: 126 Ft.

LOCATION: From MSL Post #1 go 1626 Ft. at N170°

LATITUDE: 62° 05′ DEPARTURE: 137° 10′

ELEVATION: 4200′ AZIMUTH: N60° DIP: -51°

STARTED: JUNE 23/87 FINISHED: JUNE 24/87 2:00 PM

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-51°	N60°			

HOLE NO. DDH-87-3 SHEET NO. 1

REMARKS: 20 Ft of Casing.

LOGGED BY: M. LANGDON

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	% SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	OZ/TON	OZ/TON
0	10	DIORITE - calcareous, siliceous diorite pieces - most likely overburden.									
10	14.5	TOTALLY ALTERED GRANODIORITE - altered to a white rock with orange rusty coating. - some soft → possible blue mud. → probably a boulder.									
14.5	17	DIORITE - minor sulphides as disseminations and in qtz filled fractures (same as 0-10) - not calcareous. - minor manganese coatings - many semi-round pebbles so probably are still in overburden.									
17	76.5	DIORITE - dark green [illegible] siliceous diorite - slightly calcareous which diminishes down the hole. - very fine qtz filled fractures with sulphide specks. - minor disseminated sulphides/magnetite throughout (<2%) - 4" of black rusty pyrolusite? at 35.5 - down hole gets more broken up & rusty with magnetite & pyrite in qtz/calcite/rust fractures.									
76.5	78	COMPLETELY BLEACHED DIORITE Buff brown/white colour - silicified with manganite? & minor pyrite									

LANGRIDGES – TORONTO – 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY Discovery Creek.

HOLE NO. DDH-87-3 SHEET NO. 2

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
		- no ferromags.										
78	83	DIORITE - no calcite (same as 17-76.5) - sulphides ≈ 4% disseminated pyrite.										
83	84.6	SILICIFIED CALCITE/SULPHIDE/QUARTZ VEIN. - core angle = 70° - ≈ 5-8% sulphide → very fine grained in veins → pyrite + galena - both ends are red mushy altered diorite.										
84.6	89.5	CHLORITIZED DIORITE WITH MINOR VEINS. - very calcite rich. - dark green colour - very altered to soft material - minor calcite veinlets throughout. → sheared at 87 → fault.										
89.5	91	ALTERED DIORITE WITH QTZ/SULPHIDE VEIN - from 90.4-91 is qtz/sulphide vein. - before is same as 76.5-78										
91	92	ALTERED DIORITE - same as 76.5-78										
92	94	CHLORITIZED DIORITE WITH MINOR VEINS - 5-10% pyrite/galena. (same as 84.6-89										
94	95.5	ALTERED DIORITE ≈ 3-5% sulphides (same as 91-92)										
95.5		→ GRANODIORITE CONTACT										
95.5	97	QTZ/SULPHIDE VEINS IN SILICIFIED GRANODIORITE - minor massive sulphide ± 1" wide veins → arseno + marcasite - small sulphide with pyrite/galena.										

LANGRIDGES — TORONTO — 366-1168

FORM 2

DIAMOND DRILL RECORD

NAME OF PROPERTY DISCOVER CREEK

HOLE NO. DDH-87-3 SHEET NO. 3

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
97	99	COMPLETELY ALTERED DIORITE - chloritized diorite to mushy (70%) - dark green/grey colour.										
99	102.3	LIGHT & DARK BLUE MUD ≈ 20% sulphides										
102.3	104	MASSIVE CALCITE/QTZ/SULPHIDE VEIN 60% calcite which is partly silicified. 20-30% sulphide of pyrite/galena core angle = 60°										
104	109.5	ALTERED GRANODIORITE (MINOR VEINS) - pale green/blue soft granodiorite - feldspars altered to clays - no ferromags - slightly calcareous. - very small dissemination & fractures of blue sulphides. ≈ 5% sulphides. - rusty in patches. - core angle = 60°										
109.5	121	SILICIFIED GRANODIORITE - siliceous with minor sulphides (<2%) - slightly magnetic - minor qtz stringers - a few pink qtz flooding (hematite/qtz)										
121	122	ALTERED GRANODIORITE (same as 104-109.5)										
122	126	CHLORITIZED GRANODIORITE - green colour - minor qtz veinlets - <1% sulphides END OF HOLE NO ACID TEST.										

LANGRIDGES — TORONTO — 366-1168

FORM 2

DIAMOND DRILL RECORD

NAME OF PROPERTY: DISCOVERY CREEK
HOLE NO.: DDH-87-5 LENGTH: 181 Ft.
LOCATION: From MSL Post #1 go 1175 Ft at N162°
LATITUDE: 62° 05' DEPARTURE: 137° 10'
ELEVATION: 4200' AZIMUTH: N90° DIP: -45°
STARTED: June 25/87 11:00 AM FINISHED: June 27/87 8:30 Am

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45	N90°			
181	440	N90°			
	[redacted]				

HOLE NO. DDH-87-5 SHEET NO. 1
REMARKS: Preliminary Log.

LOGGED BY: M LANGDON

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
0	18	Organic Overburden										
18	26	ALTERED GRANODIORITE & QTZ/SULPH/CALCITE VEIN - probably the dark blue/green altered granodiorite but is orange-brown/yellow and red in colour. - very broken up dirty patches - numerous qtz/sulph veins throughout ≈10% sulph. - core angle = 75° ≈ 30% of bed is vein material										
26	41	Same as above with less veins (5-10% veins) 5% sulph - more silicified (very minor calcite.) - core appeared fractured in all orientations & filled with qtz veinlets.										
41	48	Same as above but < 5% sulph and altered to a brownish yellow mud.										
48	51	Same as above but altered to a light orange/brown mud. < 5% sulph.										
51	55	Same as 41-48 - small fractures at random orientation still.										
55	59	CHLORITIC GRANODIORITE & QTZ/SULPH/CALCITE VEIN. - ≈ 10% sulphs but also chloritized. - same as 18-26										
59	69	Same as above but changes back & forth quickly of the above types of 0-59. core angle = 65°										

LANGRIDGES — TORONTO — 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY DISCOVERY CREEK

HOLE NO. DDH-87-5 SHEET NO. 2

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
69	84	BRECC. QTZ/SULPH/VEIN (Hydrobreccia) - orange/yellow & grey colour. ≥ 10% sulphides. - infilled with silicified calcite & qtz. - sulphides appear to have been before the brecciation (some later.) - minor rugs - core angle varies from 45°-80°									
84	88	Same as above but not Brecciated - more calcareous (less silicified) but still silicified - basically light baby blue/green altered granodiorite with 50% qtz/sulph/calcite veins. - minor brecciated patches. - core angle at 75° - 20% sulph?									
88	97	Same as 84-88 but altered to a brownish colour. - less silicified and more calcite (still very little) - 5-8% sulph. - core angle = 75°									
97	103	Calcified Granodiorite - silicified slightly & pervasive carbonate - 3% disseminated sulph & minor stringers. - slightly magnetic - chloritized patches.									
103	104.8	ALTERED GRANODIORITE - chloritized baby blue/green granodiorite with calcite veins with 3-5% dis sulph on vein edges. - core angle = 45°									
104.8	121.3	Slightly Calcareous Granodiorite - siliceous green granodiorite - 2% magnetite (very magnetic.) - slight pervasive carbonate ≤ 2% disseminated sulph. - minor fractures in granodiorite									

LANGRIDGES — TORONTO — 366-1168

FORM 2

DIAMOND DRILL RECORD

NAME OF PROPERTY DISCOVERY CREEK

HOLE NO. DDH-87-5 SHEET NO. 3

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		- at 118 is a 4" wide qtz/calcite vein with minor sulph. (core angle at 65°)									
		- becomes very highly chloritized for last 1 ft									
		- last 1" has 25% black sulph.									
121.3	123	MIXTURE → FAULT.									
		- mixture of mud → minor blue mud, green chloritized granodiorite, minor qtz/sulph veins,									
		- very sheared.									
		- sulphides vary in parts from 1% to 20% (average → 8%)									
		- very carbonate rich.									
		- minor red hematite staining specks in shears.									
		- about 1 ft of blue sulphide mud; 1 ft of chloritic material, 6" of sulph/vein,									
123	142	ALTERED GRANODIORITE									
		- MUSHY baby blue/green altered granodiorite.									
		- minor calcite/sulphide veins									
		- disseminated sulph. throughout ≈ 5% sulph (including magnetite)									
		- core angle = 65-0									
142	143.5	SILICIFIED CALCAREOUS GRANODIORITE									
		- very calcareous									
		- broken up pieces but very fresh looking									
		- no sulphides.									
143.5	144.5	SAME AS 121.3-123 MIXTURE									
144.5	150.6	SILICIFIED GRANODIORITE									
		- numerous sulphide/qtz veinlets that the frag. decreases down the hole.									
		- very calcareous									
		< 5% sulphides.									

LANGRIDGES – TORONTO – 366-1168

FORM 2

DIAMOND DRILL RECORD

NAME OF PROPERTY: DISCOVERY CREEK.

HOLE NO. DDH-87-5 SHEET NO. 4

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
150.6	165	CALCAREOUS GRANODIORITE - very calcareous green/blue granodiorite (not baby blue stuff) - about 20% calcite - ferromags relatively unaltered. - 3% sulphides in first 6ft, then <1% - highly magnetic - fairly siliceous in places - minor sulph veins on fracture planes									
165	181	SILICEOUS FRESH GRANODIORITE - fairly fresh granodiorite - <1% sulph. - minor calcite only in small fractures. - chlorite/silica infilled fractures. END OF HOLE									

LANGRIDGES — TORONTO — 366-1168

FORM 2

DIAMOND DRILL RECORD

NAME OF PROPERTY: DISCOVERY CREEK.
HOLE NO.: DDH-87-7A LENGTH: 71 Ft.
LOCATION: From MSL Post #1 go 212 Ft at N=05°
LATITUDE: 62° 05' DEPARTURE: 137° 10'
ELEVATION: 4100' AZIMUTH: N65° DIP: -50°
STARTED: July 1/87 FINISHED: July 2/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-50	N65°			

HOLE NO. DDH-87-7A SHEET NO. 1
REMARKS: Preliminary Log.
LOGGED BY: M. LANGDON.

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
0	?	Deep overburden to Unknown depth. Assuming 20 Ft. to insite rock. (Possible Fault Zone).									
20.5	25.3	CHLORITIZED/CALCIFIED GRANODIORITE - slightly chloritic with some strong patches. - broken ags (near surface) - dark to med. green colour with yellow/green calcite/chlorite mud infilled - minor rust veinlets. - manganese on all fractures - magnetic. - ±2% diss. sulph.									
25.3	26	GRANODIORITE-SILICEOUS - pink feldspars. - very siliceous - minor calcite in fractures - 1% diss. sulph.									
26	27	CHLORITIZED/CALCIFIED GRANODIORITE - same as 20.5-25.3									
27	29	SILICEOUS GRANODIORITE - same as 25.3-26									
29	31	CHLORITIZED/CALCIFIED GRANODIORITE - same as 20.5-25.3									
31	32	SILICEOUS GRANODIORITE - same as 25.3-26									
32	34	RHYOLITE - very altered with siliceous solutions - qty eyes & some qty solution infilled vugs (cometic growth.) - very calcareous - a buff brown/green colour. ≈ 20% minerals									

LANGRIDGES — TORONTO — 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY DISCOVERY CREEK.

HOLE NO. DDH-87-7A SHEET NO. 2

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
34	44	SILICEOUS GRANODIORITE - ≥ 2% dis. sulpd. in qtz/chlorite veins. - same as 25.3-26' - core angle at 36' = 45-65° (vary)									
44	56	Altered Calcareous Granodiorite - ≥ 3% sulpd as qtz/sulpd/calcite veins - minor "purple" carbonate rich veins. - random orientation of veins. - reduced to a green/yellow mud in places. - very calcite rich - becomes more muddy as you go down the hole. - most sulphides are oxidized to rust.									
56	71	Very Altered Calcareous Granodiorite - essentially the same as above but granodiorite reduced to a light baby blue/green mud. (probably baby blue/green granodiorite) - minor sulphide stringers <5% sulpd. - core angle at 57' appears to be about 75° - at 58.8 is a 3" wide solid calcite vein with minor sulpd (<2%) - up to 61' is muddy 61-66' is chips with minor mud. 66'-71' is muddy END OF HOLE → CAVING IN. * GOT ALMOST 2 FULL CORE BOXES OF ABOVE on reaming back down → came out of tips. (took two samples)									

DIAMOND DRILL RECORD

NAME OF PROPERTY: DISCOVERY CREEK
HOLE NO.: DDH-87-1B LENGTH: 197 Ft
LOCATION: From MSL Post #1 go 775 Ft at 270°
LATITUDE: 62° 05' DEPARTURE: 137° 10'
ELEVATION: 4100Ft AZIMUTH: N75° DIP: -45°
STARTED: July 8/87 FINISHED: July 10/87 12:45 AM.

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45°	N75°			
197	-42	N75°			
	[redacted]				
	[redacted]				

HOLE NO. DDH-87-1B SHEET NO. 1
REMARKS: Preliminary Log.

LOGGED BY: M. LANGDON

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
0	5	OVERBURDEN mixture of diorite & granodiorite.									
5	15.6	DIORITE - dark green/grey colour. - highly magnetic <1% disseminated pyrite.									
15.6	18.5	DIORITE WITH HYDRO-QTZ VEINS. diorite as above with semi-qtz veins → sections of core replaced by silica; white or usually a buff brown colour; minor sulphides (3-5%) with thin (1/2 cm) black sulphide/qtz stringers. Veins at: 15.6-16.1, 16.6-16.8, 17-17.4, 18-18.3 - at 18' is a core angle of 55° (core may be backwards.)									
18.5	23.4	HYDRO-QTZ RICH VEIN - vein as above - diorite replaced by hydro-siliceous solutions - grey/white and orange-rust with qtz/calcite/sulphide veinlets. ≃ 5-10% sulph. - good core angles throughout at 65° (six or seven veins.) - only minor calcite. - many fine grained dark grey qtz veins.									
23.4	27.6	DIORITE - many random oriented fractures filled with calcite - minor sulphides. Very magnetic.									

LANGRIDGES — TORONTO — 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY DISCOVERY CREEK.

HOLE NO. DDH-87-1B SHEET NO. 2

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
27.6	30	SHEARED DIORITE -FAULT - altered to a light green (olive) coloured mush. - sheared at 0° core on veins (poor). - very calcareous - minor sulphide splatter									
30	32	DIORITE - as in 23.4-27.6.									
32	33.3	HIGHLY ALTERED DIORITE - same as 27.6-30 but not sheared. - reduced to a very soft white/olive green mush. - minor qtz/calcite/sulph veinlets. - <3% sulph.									
33.3	45	DIORITE - at 43.6 is a 5cm wide qtz/carb/manganese vein. → core angle = 60° Same as 23.4-27.6									
45	48.3	HIGHLY ALTERED DIORITE - not silicified or highly altered. <2% visible sulph. (same as 32-33.3) - calcareous. - broken up to small pieces.									
48.3	50.7	HYDRO-CARB RICH VEIN - same as 18.5-23.4 but 30% carbonate 5-8% sulph. - qtz/calcite/sulph veinlets. - creamy white to pale green/orange colour.									
50.7	62.8	DIORITE - same as 23.4 - 27.6									

LANGRIDGES — TORONTO — 366-1168

FORM 2

DIAMOND DRILL RECORD

NAME OF PROPERTY DISCOVERY CREEK

HOLE NO. DDH-87-1B SHEET NO. 3

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
62.8	63.4	HYDRO-CARB. RICH VEIN. (same as 48.3-50.2)									
63.4	68.3	DIORITE - SAME AS 23.4-27.6									
68.3	69.6	HYDRO-QTZ/CARB/SULPH VEIN. - core angle at 50° - pyrite in vein * also a steel gray/blue sulphide (galena? sphalerite?)									
69.6	79.1	DIORITE - * at 71.6 is a 1" wide pyrite/galena/sphalerite/qtz vein. - not magnetic diorite anymore. → from 74-76 are numerous ½cm wide qtz/sulphd veins - same as 23.4-27.6									
79.1	79.8	HYDRO-QTZ/CARB/SULPH VEIN - core angle = 70° - 5% sulphd. (same as 68.3-69.6 - actual vein is only 3" wide with minor sulphd & alteration for 4" either side (vein = 25% sulphd with galena & sphalerite)									
79.8	84	Diorite with Qtz/sulph Veinlets - diorite as in 23.4-27.6 but a few ⅛" wide qtz/calcite/sulphide veinlets → core angle of 60° (pyrite/sph/galena) - not magnetic									
84	92.4	HIGHLY CHLORITIZED DIORITE - highly magnetic <1% pyrite - dark black/green colour, from 70.8-71.2 is a qtz/sulphd/calcite vein (minor sulphd.)									
92.4	94	CONTACT → Altered Granodiorite baby blue/green altered granodiorite - 3% sulphd.									

LANGRIDGES — TORONTO — 366-1168

FORM 2

DIAMOND DRILL RECORD

NAME OF PROPERTY DISCOVERY CREEK.

HOLE NO. DDH-87-1B SHEET NO. 4

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		- some light grey very fine grained sheared patches.									
94	98.4	SILICEOUS GRANODIORITE (CHLORITIZED)									
		- hard granodiorite with abundant fractures infilled with calcite/minor qtz and minor sulph.									
		- has the pink feldspars.									
		- dark green colour.									
		→ becomes more highly chloritized & carbonaceous as you go down the core.									
		≤1% disc. pyrite specks.									
98.4	105.3	Altered Granodiorite with QTZ/SULPH/CALCITE VEIN.									
		- a 16" vein of pyrite/qtz/calcite/sphalerite/galena with altered granodiorite on either side									
		→ % sulph in vein (102'-103') = 40% (10% galena)									
		→ % sulph 98.4-101 = 5% (best looking sulphide vein)									
		→ % sulph 101-102 = 5-10%									
		→ % sulph 102-104 = 5-8%									
		- core angle on vein (excellent) = 65-70°									
		- altered granodiorite is baby blue/green calcareous gd. (soft)									
		→ % sulph 104-105.3 = 4-5%									
105.3	114	SILICEOUS/Calcareous/CHLORITIZED GRANODIORITE									
		- pervasive carbonatization (same as 94-98.4 with minor soft spots)									
		- highly chloritized									
		<3% sulph (minor sphalerite specks.)									
114	122	Altered Granodiorite (Calcareous)									
		- highly fractured light green granodiorite.									
		- was silicified & then fractured & infilling with calcite.									
		- some (30%) pervasive carbonate patches.									
		- minor sulphide stringers in qtz/calc/sulph/minor calc.									
		- core angle at 115' (good) at 50°									
		- ≤3% sulph.									

DIAMOND DRILL RECORD

NAME OF PROPERTY DISCOVERY CREEK

HOLE NO. DC14-87-1B SHEET NO. 5

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
122	123.6	VERY HIGHLY CHLORITIZED GRANODIORITE -dark green colour -minor carb. -2-3% sulph.									
123.6	130.5	Altered Granodiorite with Black Mud Seam -baby blue/green altered gd. -very calcareous. -from 125-125.4 is a black sulph mud seam (5° wide) -overall 3.5-15% sulph. -from 128 to 128.8 is anther (core angle = 35-40°) -sphalerite + galena specks seen throughout.									
130.5	135	CHLORITIZED Granodiorite -pervasive carbonate. -similar to 122-123.6 but less diorite + more carb.									
135	143.5	Altered Granodiorite -same as 123.6-130.5 but less sulph. (3-6%) -from 135-135.5 is also chloritized partly. -core angle at 141' = 55° -from 141 to 142 = 8-10% sulph.									
143.5	167.5	SILICEOUS GRANODIORITE -red to dark green hard siliceous granodiorite -very magnetic ≈3% sulph & magnetite -carb infilled fractures (random) -core angle (good) at 148' = 55° (qtz/chlorite/min sulph vein). — pink k-spars abundant in places.									
167.5	173	Altered Granodiorite -same as 123.6-130.5 -core angle at 168 (good) = 20° but at 170'+ 171' is 50° -5-10% sulph.									

LANGRIDGES — TORONTO — 366-1168

FORM 2

DIAMOND DRILL RECORD

NAME OF PROPERTY: DISCOVERY CREEK.

HOLE NO. DDH-87-1B SHEET NO. 6

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	% SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
173	175	SILICEOUS/CALCAREOUS GRANODIORITE 5-7% sulph. & pervasive carb. (similar to 143.5-167.5 - very magnetic.										
175	175.5	ALTERED GRANODIORITE - 5-8% sulph (same as 167.5-173 - core angle of 55°										
175.5	181	SILICEOUS/CALCAREOUS GRANODIORITE - aqueous sheared → hematite shear planes (50°) → FAULT. - last 3 ft broken up & muddy. - 5% sulph. (same as 173-175)										
181	187.5	SILICEOUS GRANODIORITE - very s[illegible] gd. (same as 173-175 - abundant k-spar. - 3% pyrite/magnetite - last ½ ft is reduced to mud.										
187.5	188.5	Altered GRANODIORITE - baby blue/green altered gd. - same as 167.5-173 - at 188' is a 1" wide sulph/carb/qtz vein with sphalerite, pyrite & galena. (core angle (good) = 55° - 5-7% sulph.										
188.5	197	SILICEOUS GRANODIORITE - minor chlorite/magnetite/sulph stringers ≤ 2% mag/sulph. (same as 181-187.5 - pink k-spar										
		END OF HOLE										

LANGRIDGES – TORONTO – 366-1168

FORM 2

DIAMOND DRILL RECORD

NAME OF PROPERTY: DISCOVERY CREEK
HOLE NO.: DDH-87-9A LENGTH: 117 Ft.
LOCATION: From MSL Post #1 go 225Ft at N311°
LATITUDE: _____ DEPARTURE: _____
ELEVATION: _____ AZIMUTH: N100° DIP: -47°
STARTED: July 4/87 9:00 PM FINISHED: _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. MM-87-9A SHEET NO. 1
REMARKS: Preliminary Drill Log.

LOGGED BY: M. LANGDON

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
0	6	NO CORE (casing = 3 ft.)									
6	7	MED BLUE MUD - 5-10% sulph.									
7	30	CHLORITIZED G.D. → FAULTED GOUGE - olive green mud - 3-5% diss. sulph & oxides. - contains manganese specks throughout - not magnetic - at 19' is a 6" bed of red/purple/yellow with calcite - mud is quite calcareous - patches get rusty in places → 22.5-24, → generally gets more rusty as you go down the hole. - biotite flakes seen throughout									
30	36	SAME AS ABOVE BUT RUSTY COLOURED - oxidized - 5-8% diss. sulph & oxides - calcareous baby blue/green gd → orange/white colour.									
36	39	SILICEOUS GRANODIORITE - light green colour - calcareous - < 1% sulph. - very fine grained, siliceous - highly magnetic									

LANGRIDGES — TORONTO — 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY DISCOVERY CREEK

HOLE NO. DDH-87-9A SHEET NO. 2

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		- gets rusty on the last 1 ft.									
39	44.4	RHYOLITE — RUSTY									
44.4	56.3	RUSTY ALTERED GRANODIORITE									
		- thin is the thin rusty zone on the west side of the rhyolite.									
		- baby blue/green gd that is very rust									
		~3-5% sulphides plus oxides (?%)									
		- core angle (poor) at 48'									
		→ same as 30-36									
		- manganese throughout									
56.3	58.5	Altered Granodiorite									
		- baby blue/green soft granodiorite									
		- sulphide seams.									
		- first 6" has 20% sulphides then <5%									
58.5	62.5	RUSTY ALTERED GRANODIORITE									
		- same as 44.4 to 56.3									
62.5	68	Calcareous & Slightly CHLORITIZED GRANODIORITE									
		- green/yellow colour									
		- <1% sulph.									
		- manganese									
		- reduced to a broken up mud & gravel (80%)									
68	74.5	SILICIFIED GRANODIORITE									
		- hard & pale green gd.									
		- 25% fractures (many healed)									
		- minor calcite and patches.									
		~2% sulph diss.									
74.5	82.2	Calcareous/CHLORITIZED GRANODIORITE									
		- ~3% sulphs.									
		- same as 62.5-68 BUT 80% MUD.									

LANGRIDGES — TORONTO — 366-1168

FORM 2

DIAMOND DRILL RECORD

NAME OF PROPERTY: DISC. CREEK.

HOLE NO. DDH-87-9A SHEET NO. 3

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
82-2	117	- generally a pale blue/white/yellow mud. - core angle at 80' (broken) = 60° Altered Granodiorite - at 83 m a 1cm wide qtz/sulph/calcite vein. - baby blue/green mushy granodiorite - very calcareous. - diss. sulph throughout (3-5%) - core angle at 96' = 30° - numerous sulphide veinlets & pods throughout - from 108 - end of hole → <2% sulph. END OF HOLE CAVED IN (LOST 60')										

LANGRIDGES — TORONTO — 366-1168

FORM 2

DIAMOND DRILL RECORD

NAME OF PROPERTY: DISCOVERY CREEK
HOLE NO.: DDH-87-1A LENGTH: 194 Ft.
LOCATION: From MSL Post #1 go 575 Ft. at N275°
LATITUDE: 62° 05' DEPARTURE: 137° 10'
ELEVATION: 4100 AZIMUTH: 255° DIP: -80°
STARTED: JUNE 16/87 1430 FINISHED: June 17/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-80	N255			
194	-81	N255			
	-78°	corrected			

Not corrected.

HOLE NO. 2 SHEET NO. 1
REMARKS: Preliminary Log.

LOGGED BY: M. LANGDON

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
		Reamed in casing down to 20ft.										
0	20	GRANODIORITE MINOR FRESH PATCHES INTERMIXED WITH ALTERED GRANODIORITE → alters to a buff brown colour. Here the veinlets contain slightly more sulphides. → tiny specs of tiny white sulphides in patches. → veinlets are a mixture of qtz/calcite and sulphides. → sometimes veinlets bulge to small patches. → fractures veins are at 60° to the core → hornblende now rare as they have been replaced.										
20	50	GRANODIORITE SLIGHTLY SILICIFIED - same as above but veinlets are getting wider (up to 1") and they are qtz & minor sulphides. (minor black & brown unknowns also). - very little to nil in carbonate. - veinlets curve & bulge → formed from siliceous solutions replacing the granodiorite. - hornblende have totally been replaced by qtz and alteration products. - less than 1% sulphides (pyrite & arsenopyrite)										
50	63	SAME AS ABOVE except sulphides appear partially oxidized.										

LANGRIDGES — TORONTO — 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY DISCOVER CREEK.

HOLE NO. DDH-87-1A SHEET NO. 2

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
63	63'10"	BLUE MUD - almost totally altered to clays - ≈ 4% sulphides - almost similar to white mud.										
63'10'	65	ALTERED GRANODIORITE (SLIGHTLY SILICIFIED) - same as 50-63										
65	77	RELATIVELY FRESH GRANODIORITE - darker green/grey granodiorite - some hornblendes are still unaltered (minor chlorite) - carbonatized on fractures & pervasive (≈ 50%) - < 1% sulphides of pyrite & Fe-Ox. in fractures & as replacement of chloritized hornblendes.										
77	84	ALTERED CHLORITIZED GRANODIORITE - same as above with more alteration of feromags to clays. - more carbonate rich. - chloritized to a light to dark green rock. - cleavage fractures very chlorite with pyrite and minor hematite (fine pyrite) - minor siliceous veinlets carrying pyrite.										
84	102.5	Carbonaceous Granodiorite - slightly less chlorite than above - hematite content increased - very carbonatized to where the rock has crumpled to sand - very little sulphide - hornblendes only partially altered to fairly fresh. - a small red coloured qtz vein 1cm wide at 20° to core from 103.5 - 104. (No visible sulphides).										

DIAMOND DRILL RECORD

NAME OF PROPERTY DISCOVERY CREEK
HOLE NO. DDH-87-1 LENGTH 59 Ft.
LOCATION From MSL Post #1 go 425 Ft at N281°
LATITUDE 62° 05' DEPARTURE 137° 10'
ELEVATION 4100 Ft. AZIMUTH N255° DIP -60°
STARTED JUNE 15/87 FINISHED June 16/87

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-60	N255			

HOLE NO. 1 SHEET NO. 1
REMARKS Preliminary Log.

LOGGED BY M. LANGDON

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
0	59	6ft of overburden. GRANODIORITE COMPOSITION → about 20% hornblendes, 35% quartz, and 45% plagioclase - very hard siliceous granodiorite slightly carbonatized - generally light grey/green in colour with some pink potassium feldspars in some sections. - hornblendes generally dark green in colour and have been slightly altered to chlorite with manganese and magnetite as by-products. - highly fractured with a good prominent fracture cleavage at 45° to the core (this is usually about 1mm wide) - random fractures throughout are almost too small to see - all fractures have been infilled with calcite with/or without pyrite and manganese. - some of the 45° fractures show pyrite infilling - calcite content on the whole varies depending on the amount of fracturing. - very rare specks of copper hydroxides. END OF HOLE (CAVE IN)

SAMPLE NO.	% SULPHIDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	ASSAYS %	%	OZ/TON	OZ/TON

LANGRIDGES — TORONTO — 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY: DISCOVERY CREEK

HOLE NO. DDH-87-12 LENGTH 149 Ft.

LOCATION From MSL Post #1 go 637 Ft at N245°

LATITUDE 62° 05' DEPARTURE 137° 10'

ELEVATION 4107 Ft. AZIMUTH N260° DIP -45°

STARTED JUNE 29/87 7:00 PM FINISHED June 30/87.

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45	N260°			

HOLE NO. DDH-87-12 SHEET NO. 1

REMARKS Preliminary Log.

LOGGED BY M LANGDON

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
0	8	Overburden → pieces of unaltered siliceous granodiorite (minor feldspar)									
8	21	RHYOLITE - very fine grained siliceous rhyolite - pervasive carbonate throughout. - minor fractures with calcite - dark to med. "deep green" colour. 1-2% diss. sulph. & some sulph patches - blebs of carbonate. → a 3" vein of granodiorite at 20'									
21	22.5	Calcareous Granodiorite - 2-3% diss. sulph. - very calcite rich.									
22.5	24.5	RHYOLITE - more highly altered → looks more like porphyry dyke (both are the same rhyolite) - minor qty eyes (same as 8-21) - 2-3% diss. sulph. - very calcareous with fractures, blebs + pervasive.									
24.5	50	Calcareous Granodiorite - very calcite rich (same as 21-22.5) - 1-2% diss sulph plus 1-2% red streaks + blebs → oxid. zone - sometimes broken down to mush with red oxide veins. - feldspars have many pink K-spar - carbonate decreases down hole to just on fractures (also % sulphides decrease) - at 45FHa one angle at 55°									

LANGRIDGES — TORONTO — 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY DISCOVER CREEK.

HOLE NO. DDH-87-12 SHEET NO. 2

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
50	54.3	Chloritized / Calcareous Granodiorite - from 54 - 55' becomes a green rock.									
54.3	61.1	Altered Granodiorite - the baby blue/green altered granodiorite that is a brown/orange rust colour. - very calcite rich (20%) - from 59 to 59.6 is a siliceous patch. - minor sulphides <2% → oxidized?? - at 61 is a core angle of 30° → sulphide vein.									
61.1	64.8	SILICEOUS GRANODIORITE - dark green mottled appearance - highly fractured with calcite infilling - very magnetic → many feromags filled with magnetite. 1-2% diss sulph plus minor rusty patches - very siliceous & hard									
64.8	66	ALTERED GRANODIORITE - same as 54.3 - 61.1									
66	69.3	SILICEOUS GRANODIORITE - same as 61.1 - 64.8									
69.3	71	ALTERED GRANODIORITE - same as 54.3 - 61.1.									
71	74	Altered Granodiorite with ↑ manganese - small fault at 71 Ft → stained calcite & red (hematite) - similar to baby blue/green granodiorite that is broken up to clasts with all broken faces covered with manganese. - very rusty also (rusty red/orange & black in colour)									
74	89	SILICEOUS GRANODIORITE - at 81' a core angle of 30° - manganese rich on fracture faces - [illegible] (same as 61.1 - 64.8)									

LANGRIDGES — TORONTO — 366-1168

FORM 2

DIAMOND DRILL RECORD

NAME OF PROPERTY DISCOVERY CREEK

HOLE NO. DDH-87-12 SHEET NO. 3

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
89	103	**Altered Granodiorite** - baby blue/green granodiorite - light green/buff brown colour - very calcite rich. - rusty on fractures with manganese - at 91' is a core angle of 50° - minor calcite/sulphide (black) veins - not magnetic - calcite veins run at random orientations - 4-5% diss. sulph - from 95' to 98' is very manganese rich.									
103	109.1	**WHITE MUD VEIN** → white mud vein of trend 25 → here it is dark blue/black/white/red/purple in colour. - 30-50% sulphides & sulphosalts (possibly high silver) - minor vuggy qtz with 30% sulph → dark grey/black/purple colour, (from 105-106.5) - NO CARBONATE - probable fuchsite & allanite.									
109.1	113.1	**QTZ/SULPHIDE/SULPHOSALT VEIN** argentite pyrargyrite - 30-40% sulphides with sulphosalts. - NO CARBONATE ≈ 20% pyrite plus galenite/galena and possibly argentite/pyrargyrite proustite/tetrahedrite/Argentite. - from 110-111.5 is rich in possible sulphosalts. - qtz is quite vuggy → dark grey colour.									
113.1	115.3	**WHITE MUD VEIN** - white/orange mud with clast of above within it. - 20% sulphides/sulphosalts - at 114 a clast of above shows sulphosalts. (50% sulph.)									
115.3	117.6	**Altered Granodiorite** - same as 89-103									

LANGRIDGES — TORONTO — 366-1168

FORM 2

DIAMOND DRILL RECORD

NAME OF PROPERTY DISCOV. BY CREEK.

HOLE NO. DDH-87-12 SHEET NO. 4

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		-very calcareous with calcite veins - core angle at 117' = 60° -3-5% black sulphide streaks - light olive green in colour.									
117.6	119.1	CHLORITIZED GRANODIORITE - siliceous/chloritized granodiorite - dark green colour. - calcite only in fractures. ≈1% diss. sulph.									
119.1	122.6	ALTERED GRANODIORITE -blotchy calcite flooding (random orientation) - highly calcareous. (same as 115.3-117.6) <3% diss. sulph. - dark olive green colour - chloritic									
122.6	134	Calcareous Granodiorite - light blue/green soft granodiorite - very calcite rich (±20%) - host rock is granodiorite with pink K-spars. - sheared or altered to mud in places. (not the baby blue/green granodiorite) <2% sulphides.									
134	134.6	RHYOLITE DYKE - light green calcareous rhyolite. - qtz eyes ≈3% diss. sulph.									
134.6	135	QTZ/SULPH VEIN - same as 109.1 - 113.1 10-15% sulph. - minor galena.									

LANGRIDGES – TORONTO – 366-1168

FORM 2

DIAMOND DRILL RECORD

NAME OF PROPERTY DISCOV. 4 CREEK

HOLE NO. DDH-87-12 SHEET NO. 5

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
135	149	CHLORITIZED/CALCIFIED GRANODIORITE - Dark green colour - very soft & muddy. - very calcite rich - appears sheared in places - soapy texture (slippery) - <1% dis sulph. - quite fine grained - very little qtz in the rock. - med strong magnetic - looks almost like a greenstone volc (int.) - minor pink/red hematite in calcite sheared faces.									
		END OF HOLE - caving in so abandoned hole.									

LANGRIDGES — TORONTO — 366-1168

FORM 2

DIAMOND DRILL RECORD

NAME OF PROPERTY Discovery Creek.
HOLE NO. DDH-87-4 LENGTH 267
LOCATION From L24+11S/1800E go 240 ft at N80°
LATITUDE 62° 05' DEPARTURE 137° 10'
ELEVATION 4200 Ft. AZIMUTH N260° DIP -45
STARTED June 28/87 12:00AM FINISHED June 29/87 2:00 PM

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45°				
267	-41°				
	[redacted]				

HOLE NO. DDH-87-4 SHEET NO. 1
REMARKS Preliminary Log.

LOGGED BY M LANGDON.

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
0	3	Overburden										
3	31	RUSTY SILICIFIED GRANODIORITE (HYDROFRACTURED) - very rusty & broken up. - minor sulph veins & dissemination but because it is so rusty % sulphides not available. - manganese coating in places.										
31	34	RUSTY CALCAREOUS GRANODIORITE (HYDROFRACTURED) - very similar to above - very calcareous - sulphide/qtz/calcite veins in a highly altered rusty granodiorite that increase in % down the hole. - 3-5% sulph. + alot of rust. - appears hydrofractured										
34	62	RUSTY SILICIFIED GRANODIORITE (HYDROFRACTURED) - sulphides higher % here 5-10% - sulphides increasing down hole. (same as 3-31) - at 55ft % sulph = 10-15% - at 56ft % sulph = 10-15% plus 3% sphalerite - at 57-58.3 % sulph = 20% - at 59-62 % sulph = 25% - at 59 core angle = 60°										
62	80	QTZ/SULPHIDE VEIN (MINOR CALCITE) >50% sulphides. to 70ft - 60° core angle. - minor veins at 15°										

LANGRIDGES — TORONTO — 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY DISCOVERY CREEK.

HOLE NO. DDH-87-4 SHEET NO. 2

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		- calcite rich patches									
		>30% sulph from 70-80									
80	85	RUSTY CALCAREOUS GRANODIORITE (HYDROFRACTURED)									
		- crumbly rusty granodiorite with 5-10% sulph. (muddy sections)									
		- slightly chloritized									
		- sphalerite seen at 83 ft. - Same as 31-34									
		- core angle at 85 ft = 30°									
		- from 85-86 is 5% galena/sphalerite.									
85	91.8	ALTERED GRANODIORITE WITH SULPHIDES.									
		- baby blue/green granodiorite with 5%-8% sulph.									
		- slightly calcareous with some calcite rich patches.									
		- rusty orange colour.									
91.8	94	SILICIFIED GRANODIORITE WITH SULPHIDES.									
		5-10% sulphides as stringers									
		- dark green/brown siliceous granodiorite with alot of manganese coatings									
		- many thin (1/4 cm) qtz/sulph stringers → very dark/black colour.									
94	103	ALTERED GRANODIORITE WITH SULPHIDES.									
		- 3-5% black sulphides as dissemination									
		- not magnetic									
		- olive green/buff brown colour.									
		- same as 85 to 91.8									
103	105	Altered Granodiorite									
		- large ferromags									
		< 2% sulph - slightly magnetic									
		- same as above but pinker & ferromags not altered.									
105	120.5	Altered Granodiorite with Sulphides									
		2-5% black sulph. diss (same as 94-103									
		- not magnetic									
		- core angle = 40° at 111									
		- minor calcite rich calcite/qtz/sulph veins (only calcite veins!)									
		- core angle at 215 = 45°									

LANGRIDGES — TORONTO — 366-1168

FORM 2

DIAMOND DRILL RECORD

NAME OF PROPERTY DISCOVERY CREEK

HOLE NO. DDH-87-4 SHEET NO. 3

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
120.5	141	Highly Chloritized Granodiorite - Moderately to broken bits & mounds. - minor more silicified patches with sulph stringers - magnetic. - 2% sulphides & magnetite.										
141	143.8	Silicified Granodiorite with Sulphides. - minor stringers (same as 91.8-94) 2-3% sulphides & magnetite - strongly magnetic.										
143.8	150	Calcareous/Chloritized Granodiorite. - same as started but very calcareous. - minor sulph stringers (same as 120.5-141 but highly calcareous) - core angle = 20° 3-5% sulphides.										
150	153	Calcareous Granodiorite with sulph. Veins. - basically ~~same~~ above but less silicified & more veins → more siliceous & good core - highly calcareous, magnetic patches.										
153	155	Highly Chloritized Granodiorite - same as 120.5 - 141										
155	167.	Calcareous Granodiorite with Sulphide Veins <3% black sulph. as stringers. (magnetite rich). - fairly siliceous (same as 150-153 - highly pervasive carbonate - strongly magnetic - 2 or 3 different fracture orientations.										
167	175	ALTERED GRANODIORITE WITH QTZ/CALCITE SULPH VEINS - two core angles at 25° & 60° - ≈5° sulphides.										

LANGRIDGES — TORONTO — 366-1168

FORM 2

DIAMOND DRILL RECORD

NAME OF PROPERTY Discovery Creek.

HOLE NO. DDH-87-4 SHEET NO. 4

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		- baby blue/green altered granodiorite with veins - slightly calcareous except very on veins + fractures.									
175	185	HIGHLY CHLORITIZED GRANODIORITE - minor sulphides < 2% - highly broken up + mushy.									
185	188	~~Sheared Altered Granodiorite~~									
		- sheared the most at 10° to core. ≈ 3% sulph. (baby blue/green gd)									
188	191	Siliceous Slightly Calcareous Granodiorite - < 1% sulph.									
191	203	ALTERED GRANODIORITE WITH MINOR VEINS (calcite/sulphides) - light to baby green/blue. altered gd. - sulphide patches + streaks throughout ≈ 5% sulph. - attends to a white or green/rust/white colour. - core angle at 198 = 45° - very calcareous - veins are mostly calcite + sulphide → very little qtz. - seem to carry more galena than the qtz rich veins - at 198' is an 8" wide calcite vein with sulph stringers. - sulph increase down the hole.										
203	211	SULPHIDE/CARBONATE VEIN OR BLUE MUD. - core angle at 210 are → 50° ± 25°. → possible highly altered rhyolite vein from 203 - 203.8 - 10-15% sulph. - sulphides are very blue in colour → galena/galactite ? - veins generally brecciated + reflooded with calcite. (very slightly silicified in patches.) - calcite > 50% of vein. - some parts resemble "blue mud" rather than QTZ/carb/sulph vein.										

LANGRIDGES — TORONTO — 366-1168

FORM 2

DIAMOND DRILL RECORD

NAME OF PROPERTY DISCOVERY CREEK

HOLE NO. DD14-87-4 SHEET NO. 4

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
211	214	Calcareous Granodiorite (Chloritized) - very calcite rich - minor veins of calcite/sulfide. (1cm) 3-4% sulfide. (same as 155-167)									
214	224	Altered Granodiorite with minor Veins (Calcareous) - very calcite rich - reduced to a mush. 3-5% sulfide. (same as 191-202) - from 219.5-221 is a sulfide/qtz vein with 20% sulfide. * from 214-216 rock is very sheared → fault.									
224	228	Black/Dark Blue mud - baby green as above with fine black sulphide mud ≈25% sulfide.									
228	230.5	ALTERED GRANODIORITE with minor Veins (Calcareous) - same as 214-224 but more sulfide. - 10% sulfide.									
230.5	234.7	BLACK/DARK BLUE MUD. - at 232 is core angle = 45° (good one → same right through the mud) - within granodiorite as see darks of baby blue/green altered gd.									
234.7	235.7	LIGHT GREY/BLUE ALTERED RHYOLITE - 2% disseminated sulfide. - core angle of contact is at 45° - calcite rich fractures throughout + some pervasive. - last 6" has 8% black mineral → probably sulphides (not magnetic at all.)									
235.7	240	CHLORITIZED & CALCIFIED DIORITE - broken up bits. - 2% diss. sulfide. - dark olive green colour. - very calcareous with carb. veins.									

LANGRIDGES – TORONTO – 366-1168

FM 2

DIAMOND DRILL RECORD

NAME OF PROPERTY DISCOV. 4 CREEK

HOLE NO. DDH-87-4 SHEET NO. 5

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
240	241.5	DIORITE - highly magnetic - < 1% diss. sulph.									
241.5	244.5	Rhyolite (SILICEOUS) - siliceous rhyolite. - light green colour. - blue sulph veins & diss. sulph. - 5% sulphides. - minor carbonate on fractures.									
244.5	251	DIORITE - same as 240-241.5 - carb. fractures - magnetic - 1% diss. sulph.									
251	253	DIORITE / RHYOLITE MIXTURE - veins of rhyolite (carb rich) going through diorite 80% rhyolite - 3-5% diss. sulph & calcite / sulph stringers									
253	255.8	DIORITE - dark green fine grained siliceous diorite. < 1% diss. pyrite specks.									
255.8	256.7	Calcareous / Silicified Granodiorite with Sulphides. - 5% sulphides of calcite / sulphide mud.									
256.7	257.6	DIORITE									
257.6	258.2	Calcareous / Silicified Granodiorite but 1% diss. sulph (same as 255.8-256.7)									
258.2	260	DIORITE									

DIAMOND DRILL RECORD

NAME OF PROPERTY Discovery Creek.

HOLE NO. DDH-87-4 SHEET NO. 6

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
260	261	Calcareous/Silicified Granodiorite. 4% sulph.										
261	267	DIORITE same as 253-255.8										
		END OF HOLE										

DIAMOND DRILL RECORD

NAME OF PROPERTY: DISCOVERY CREEK.
HOLE NO.: DDH-87-2 LENGTH: 324 FT.
LOCATION: FROM MSL POST #1 go 1625 FT at N161°
LATITUDE: 62° 0E' DEPARTURE: 137° 10'
ELEVATION: 4200 AZIMUTH: N230° DIP: -45°
STARTED: June 20/87 11:PM FINISHED: July 23/87.

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45°	N230			
320	-44°	N230			

HOLE NO. 4 SHEET NO. 1
REMARKS: Preliminary Log.

LOGGED BY: M. LANGDON

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
0	8	OVERBURDEN CASING TO 20 FT.									
8	10.5	SLIGHTLY ALTERED GRANODIORITE - slightly silicified - ≈ 2% dis. sulphides (pyrite, magnetite) - not magnetic - no calcite - minor qtz veinlets.									
10.5	13	BROKEN-UP SLIGHTLY ALTERED GRANODIORITE									
13	14.8	Same as above but 2-5% sulphides → core is dusted up & totally rust covered.									
14.8	16	ALTERED GRANODIORITE - pale green/blue granodiorite that turns buff brown in oxidized patches - qtz veinlets common with sulphides - qtz/calcite vein (1cm) with no sulphides. - only veins are calcareous. - 3-5% sulphides.									
16	16.3	BROKEN UP SLIGHTLY ALTERED GRANODIORITE - 1" wide calcite vein. - same as 13-14.8									
16.3	19	ALTERED GRANODIORITE - 1-2% sulphides. (same as 14.8-16)									
19	31.5	VERY ALTERED GRANODIORITE - rusty buff brown granodiorite - no calcite - broken up in places.									

LANGRIDGES — TORONTO — 366-1168

RM 1

APPENDIX II

Assay Results

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BBBBBBBB
BB      BB                          DD
BB      BBB                         DD
BB      BB                          DD
BBBBBBBB      OOOOO    NNNNNN     DDDDDD      AAA    RR RRRR       BBBBBBB
BB      BB    OO   OO  NN   NN    DD   DD       A     RRRR          CCCCCCC
BB      BBB   OO   OO  NN   NN    DD   DD    AAAAAA   RR
BB      BB    OO   OO  NN   NN    DD   DD   AA   AA   RR
BBBBBBBB      OOOOO    NN   NN    DDDDDD    AAAAAA   RR
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                                  CCCCCC  LLL
                                 CCCC     LLL
                                CCC       LLL
                               CCC        LLL
                               CCC        LLL     EEEE     GGGGGG    GGGGGG
                               CCC        LLL    EE  EE   GG    GG  GG    GG
                                CCC       LLL   EEEEEEE   GG    GG  GG    GG
                                 CCCC     LLL   EE        GG    GG  GG    GG
                                   CCCCCC  LLL   EEEEE     GGGGGG    GGGGGG
                                                                GG        GG
                                                                GG        GG
                                                               GGG       GGG
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BBBBBBBB        CCCCCC              SSSSS
BB      BB     CCCC                SSS          TTT              TTT
BB      BBB   CCC                 SSS           TTT              TTT
BB      BB    CCC                  SSS         TTTTTTT          TTTTTTT
BBBBBBBB      CCC                    SSSS        TTT       AAA     TTT      SSSS
BB      BB    CCC                       SSS     TTT         A     TTT    SSS
BB      BBB    CCC                       SSS    TTT     AAAAAA    TTT      SSS
BB      BB      CCC       BBBBBBB         SSS    TTT    AA   AA   TTT        SSS
BBBBBBBB        CCCCCC  CCCCCCC   SSSSSS        TTT    AAAAAA     TTT    SSSS
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Bondar-Clegg Geochemical Statistics Package

AURCHEM RESOURCES

Data Listing

Sample Identifier				Gold +150	Gold -150	Gold Weig		Silver -A	Lead	Zinc	Arsenic
SAMPID	AUP	AUM	AUAV	AUP152	AUM152	AU_AV2	AG	AG2	PB	ZN1	AS
	OPT	OPT	OPT	OPT	OPT	OPT	OPT	OPT	PPM	PPM	PPM
D1-87-1	0.000	0.000	0.000				0.05		222	72	15
D1-87-2	0.000	0.002	0.002				0.01		47	41	18
D1-87-3	0.000	0.002	0.002				0.02		107	29	12
D1-87-4	0.000	0.001	0.001				0.15		351	33	7
D1-87-5	0.000	0.001	0.001				0.01		39	33	5
D12-87-252				<0.001	<0.001	<0.001	0.01		17	131	54
D12-87-253				0.007	<0.001	0.001	0.01		24	103	109
D12-87-254				1.018	<0.001	0.087	0.00		28	33	15
D12-87-255				0.005	<0.001	<0.001	0.01		28	48	16
D12-87-256				<0.001	<0.001	<0.001	0.01		22	123	45
D12-87-257				<0.001	<0.001	<0.001	0.01		34	228	165
D12-87-258				0.004	<0.001	<0.001	0.00		15	150	46
D12-87-259				<0.001	<0.001	<0.001	0.01		14	163	50
D12-87-260				<0.002	<0.001	<0.001	0.00		14	389	64
D12-87-261				<0.002	<0.001	<0.001	0.05		105	861	260
D12-87-262				0.002	<0.001	<0.001	0.02		28	245	50
D12-87-263				<0.001	<0.001	<0.001	0.06		32	214	10
D12-87-264				0.001	<0.001	<0.001	0.01		12	119	30
D12-87-265				0.001	<0.001	<0.001	0.03		50	279	72
D12-87-266				0.002	0.001	0.001	0.03		76	308	105
D12-87-267				0.001	0.001	0.001	0.03		157	4770	190
D12-87-268				0.002	0.006	0.006	0.19	0.34	797	195	412
D12-87-269				0.015	0.019	0.019	0.11	1.35	5700	185	1112
D12-87-270				0.043	0.014	0.015	0.10	0.82	4260	154	1200
D12-87-271				0.005	0.013	0.013	0.37	0.60	1635	314	784
D12-87-272				0.028	0.024	0.024	1.36	1.36	1405	261	680
D12-87-273				0.258	0.250	0.250	3.20	14.02	9610	14300	>2000
D12-87-274				0.064	0.083	0.080	3.20	19.56	12180	>20000	>2000
D12-87-275				0.065	0.092	0.091	2.72	1.07	3810	826	1104
D12-87-276				0.002	0.008	0.008	0.17	0.13	504	1260	1304
D12-87-277				0.004	0.002	0.002	0.54	0.53	3890	3900	888
D12-87-278				0.001	<0.001	<0.001	0.02		90	3960	168
D12-87-279				0.002	<0.001	<0.001	0.00		54	202	75
D12-87-280				0.001	<0.001	<0.001	0.00		27	107	6
D12-87-281				0.001	<0.001	<0.001	0.00		27	63	6
D12-87-282				<0.001	<0.001	<0.001	0.01		50	144	93
D12-87-283				0.037	0.026	0.027	1.11		1835	703	688
D12-87-284				<0.001	<0.001	<0.001	0.07		1315	116	24
D1A-87-06	0.001	0.001	0.001				0.02		18	188	21
D1A-87-07	0.001	0.001	0.001				0.02		20	153	51
D1A-87-08	0.000	0.005	0.005				0.04		71	212	254
D1A-87-09	0.001	0.000	0.000				0.03		57	301	318
D1A-87-10	0.001	0.004	0.004				0.04		82	205	279
D1A-87-11	0.000	0.000	0.000				0.01		53	151	134
D1A-87-12	0.000	0.011	0.010				0.01		10	321	316
D1A-87-13	0.001	0.000	0.000				0.01		8	270	172
D1A-87-14	0.000	0.000	0.000				0.01		16	106	30
D1A-87-15	0.001	0.001	0.001				0.00		12	58	26
D1A-87-16	0.000	0.047	0.043				0.01		17	69	20
D1A-87-17	0.001	0.006	0.006				0.03		55	104	56

AURCHEM RESOURCES

Data Listing

Sample Identifier SAMPID	AUP OPT	AUM OPT	AUAV OPT	Gold +150 AUP152 OPT	Gold -150 AUM152 OPT	Gold Weig AU_AV2 OPT	AG OPT	Silver -A AG2 OPT	Lead PB PPM	Zinc ZN1 PPM	Arsenic AS PPM
D1A-87-18	0.000	0.002	0.002				0.01		23	56	19
D1A-87-19	0.000	0.000	0.000				0.04		84	38	7
D1A-87-20	0.000	0.000	0.000				0.01		62	77	8
D1A-87-21	0.001	0.000	0.000				0.00		11	52	9
D1A-87-22	0.000	0.006	0.005				0.00		8	75	5
D1A-87-23	0.001	0.007	0.006				0.01		56	76	11
D1A-87-24	0.000	0.005	0.004				0.00		21	64	7
D1A-87-25	0.000	0.001	0.001				0.00		18	55	10
D1A-87-26	0.000	0.000	0.000				0.00		19	47	6
D1A-87-27	0.001	0.002	0.002				0.02		37	13	7
D1A-87-28	0.000	0.002	0.002				0.00		19	55	6
D1A-87-29	0.000	0.053	0.048				0.00		12	37	6
D1A-87-30	0.001	0.009	0.009				0.01		17	72	9
D1A-87-31	0.000	0.010	0.009				0.00		13	30	3
D1B-87-400				<0.001	0.001	<0.001	0.02		94	144	68
D1B-87-401				<0.001	<0.001	<0.001	0.02		85	205	103
D1B-87-402				<0.001	<0.001	<0.001	0.01		48	197	592
D1B-87-403				0.001	<0.001	<0.001	0.04		193	116	39
D1B-87-404				0.001	<0.001	<0.001	0.01		25	74	47
D1B-87-405				<0.001	<0.001	<0.001	0.00		36	113	35
D1B-87-406				<0.001	<0.001	<0.001	0.16		2860	156	40
D1B-87-407				<0.001	<0.001	<0.001	0.01		90	159	41
D1B-87-408				<0.001	<0.001	<0.001	0.03		170	146	67
D1B-87-409				<0.001	<0.001	<0.001	0.09		936	123	66
D1B-87-410				<0.001	0.001	<0.001	0.21		2480	277	232
D1B-87-411				<0.001	<0.001	<0.001	0.03		295	459	26
D1B-87-412				<0.001	0.003	0.003	0.25		2210	305	88
D1B-87-413				<0.001	<0.001	<0.001	0.06		465	115	26
D1B-87-414				<0.001	0.002	0.002	0.00		18	82	9
D1B-87-415				<0.001	<0.001	<0.001	0.00		38	78	23
D1B-87-416				<0.001	<0.001	<0.001	0.00		25	53	16
D1B-87-417				0.001	<0.001	<0.001	0.01		19	40	7
D1B-87-418				0.001	0.001	0.001	0.04		61	114	35
D1B-87-419				0.007	0.009	0.009	0.14		400	467	310
D1B-87-420				0.094	0.080	0.081	1.37	4.75	5640	>20000	>2000
D1B-87-421				0.028	0.021	0.021	0.96	1.34	3460	556	576
D1B-87-422				<0.001	0.001	<0.001	0.06		190	130	34
D1B-87-423				<0.001	0.004	0.004	0.05		202	56	7
D1B-87-424				<0.001	<0.001	<0.001	0.03		88	54	11
D1B-87-425				<0.001	0.003	0.003	0.01		49	49	<2
D1B-87-426				<0.001	0.002	0.002	0.02		80	48	<2
D1B-87-427				<0.001	<0.001	<0.001	0.02		38	39	8
D1B-87-428				0.016	0.015	0.015	0.04		91	138	512
D1B-87-429				<0.001	0.001	<0.001	0.10		185	250	92
D1B-87-430				0.009	0.001	0.002	0.05		106	378	127
D1B-87-431				0.001	0.002	0.002	0.01		22	46	9
D1B-87-432				<0.001	<0.001	<0.001	0.01		22	40	12
D1B-87-433				<0.001	<0.001	<0.001	0.02		44	60	88
D1B-87-434				<0.001	<0.001	<0.001	0.01		15	43	15
D1B-87-435				0.003	<0.001	<0.001	0.01		20	38	9

AURCHEM RESOURCES

Data Listing

Sample Identifier				Gold +150	Gold -150	Gold Weig		Silver -A	Lead	Zinc	Arsenic
SAMPID	AUP	AUM	AUAV	AUP152	AUM152	AU_AV2	AG	AG2	PB	ZN1	AS
	OPT	OPT	OPT	OPT	OPT	OPT	OPT	OPT	PPM	PPM	PPM
D1B-87-436				<0.001	<0.001	<0.001	0.02		22	46	9
D1B-87-437				<0.001	0.001	<0.001	0.02		75	69	70
D1B-87-438				<0.001	<0.001	<0.001	0.02		28	39	44
D1B-87-439				<0.001	<0.001	<0.001	0.02		22	43	25
D1B-87-440				<0.001	<0.001	<0.001	0.02		26	42	17
D1B-87-441				<0.001	<0.001	<0.001	0.01		25	37	8
D1B-87-442				<0.001	<0.001	<0.001	0.12		1670	1695	75
D1B-87-443				<0.001	<0.001	<0.001	0.02		32	41	12
D2-87-076				<0.001	<0.001	<0.001	0.00		23	175	19
D2-87-077				<0.001	<0.001	<0.001	0.00		40	206	56
D2-87-078				<0.001	<0.001	<0.001	0.00		14	116	25
D2-87-079				<0.001	<0.001	<0.001	0.00		71	193	40
D2-87-080				<0.001	<0.001	<0.001	0.00		25	134	125
D2-87-081				<0.001	<0.001	<0.001	0.00		10	102	28
D2-87-082				0.002	0.003	0.003	0.09		289	529	800
D2-87-083				0.009	0.015	0.014	0.18		952	8740	>2000
D2-87-084				0.004	0.008	0.008	0.09		872	5170	>2000
D2-87-085				0.001	0.003	0.003	0.03		438	883	1010
D2-87-086				0.003	0.005	0.005	0.11		329	524	784
D2-87-087				<0.001	0.001	<0.001	0.01		83	201	91
D2-87-088				<0.001	<0.001	<0.001	0.00		190	209	18
D2-87-089				<0.001	<0.001	<0.001	0.00		8	42	5
D2-87-090				<0.001	<0.001	<0.001	0.00		9	26	7
D2-87-091				<0.001	<0.001	<0.001	0.00		86	170	10
D2-87-092				<0.001	<0.001	<0.001	0.00		10	109	17
D2-87-093				<0.001	0.001	<0.001	0.02		32	153	37
D2-87-094				<0.001	0.001	<0.001	0.01		12	169	33
D2-87-095				<0.001	<0.001	<0.001	0.00		13	155	11
D2-87-096				<0.001	<0.001	<0.001	0.00		10	97	17
D2-87-097				<0.001	<0.001	<0.001	0.00		9	56	14
D2-87-098				<0.001	<0.001	<0.001	0.00		9	50	9
D2-87-099				<0.001	<0.001	<0.001	0.00		13	75	6
D2-87-100				<0.001	0.001	<0.001	0.01		39	177	18
D2-87-101				<0.001	<0.001	<0.001	0.00		48	174	13
D2-87-102				<0.001	0.001	<0.001	0.00		17	153	8
D2-87-103				<0.001	<0.001	<0.001	0.00		37	91	112
D2-87-104				<0.001	<0.001	<0.001	0.02		112	171	40
D2-87-105				0.006	<0.001	<0.001	0.14		579	930	>2000
D2-87-106				<0.001	0.001	<0.001	0.03		84	183	1184
D2-87-107				<0.001	<0.001	<0.001	0.00		25	94	96
D2-87-108				<0.001	<0.001	<0.001	0.06		859	689	89
D2-87-110				<0.001	<0.001	<0.001	0.00		10	74	12
D2-87-111				<0.001	<0.001	<0.001	0.01		25	93	43
D2-87-112				<0.001	<0.001	<0.001	0.00		12	66	9
D2-87-113				0.003	0.003	0.003	0.12		320	371	>2000
D2-87-114				<0.001	<0.001	<0.001	0.00		15	70	13
D3-87-115				<0.001	<0.001	<0.001	0.01		14	182	16
D3-87-116				<0.001	<0.001	<0.001	0.01		9	153	54
D3-87-117				<0.001	<0.001	<0.001	0.00		8	187	108
D3-87-118				<0.001	<0.001	<0.001	0.01		24	190	119

AURCHEM RESOURCES

Data Listing

Sample Identifier				Gold +150	Gold -150	Gold Weig		Silver -A	Lead	Zinc	Arsenic
SAMPID	AUP OPT	AUM OPT	AUAV OPT	AUP152 OPT	AUM152 OPT	AU_AV2 OPT	AG OPT	AG2 OPT	PB PPM	ZN1 PPM	AS PPM
D3-87-119				0.001	0.001	0.001	0.02		38	1014	>2000
D3-87-120				<0.001	<0.001	<0.001	0.02		12	89	101
D3-87-121				0.002	0.001	0.001	0.02		15	93	744
D3-87-122				0.003	0.004	0.004	0.03		197	215	672
D3-87-123				0.003	0.003	0.003	0.03		102	86	728
D3-87-124				<0.001	<0.001	<0.001	0.01		75	87	16
D3-87-125				0.015	0.023	0.022	0.08		216	356	>2000
D3-87-126				0.010	0.017	0.017	0.04		379	332	>2000
D3-87-127				<0.001	0.005	0.005	0.02		30	72	98
D3-87-128				<0.001	0.002	0.002	0.01		15	76	15
D3-87-129				<0.001	0.019	0.017	0.00		13	84	18
D3A-87-130				<0.001	0.021	0.018	0.04		81	234	103
D3A-87-131				0.002	0.013	0.012	0.03		106	543	166
D3A-87-132				0.006	0.030	0.028	0.25		502	978	1312
D3A-87-133				<0.001	0.007	0.006	0.03		100	359	88
D3A-87-134				<0.001	0.012	0.011	0.00		25	168	39
D3A-87-135				<0.001	0.004	0.004	0.01		64	260	171
D3A-87-136				<0.001	0.019	0.017	0.01		47	176	113
D3A-87-137				<0.001	0.029	0.027	0.01		34	261	150
D3A-87-138				0.001	0.018	0.016	0.01		23	116	768
D3A-87-139				<0.001	0.013	0.012	0.00		33	129	310
D3A-87-140				<0.001	0.021	0.019	0.01		63	223	87
D3A-87-142				<0.001	<0.001	<0.001	0.03		260	67	26
D3A-87-143				<0.001	<0.001	<0.001	0.06		308	199	18
D3A-87-144				<0.001	<0.001	<0.001	0.00		209	58	21
D3A-87-145				<0.001	<0.001	<0.001	0.02		54	50	18
D3A-87-146				<0.001	0.001	<0.001	0.04		194	283	56
D3A-87-147				<0.001	0.001	<0.001	0.08		130	168	104
D3A-87-148				0.031	0.004	0.007	0.18		294	474	520
D3A-87-149				0.005	0.005	0.005	0.19		108	162	242
D3A-87-150				<0.001	<0.001	<0.001	0.01		84	141	63
D3A-87-151				<0.001	0.002	0.002	0.02		96	163	26
D3A-87-152				0.002	0.003	0.003	0.07		279	345	71
D3A-87-153				<0.001	<0.001	<0.001	0.04		69	389	119
D3A-87-154				0.007	0.002	0.002	0.17		187	203	168
D3A-87-155				<0.001	<0.001	<0.001	0.02		23	170	85
D3A-87-156				<0.001	0.004	0.004	0.01		50	117	170
D3A-87-157				<0.001	<0.001	<0.001	0.01		29	95	80
D3A-87-158				<0.001	0.001	<0.001	0.00		42	83	106
D3A-87-159				<0.001	<0.001	<0.001	0.01		14	46	47
D3A-87-160				<0.001	<0.001	<0.001	0.01		58	59	57
D3A-87-161				<0.001	<0.001	<0.001	0.00		67	124	42
D3A-87-162				<0.001	<0.001	<0.001	0.01		17	60	36
D3A-87-163				<0.001	<0.001	<0.001	0.00		14	37	8
D3A-87-164				<0.001	<0.001	<0.001	0.00		11	33	4
D3A-87-165				<0.001	<0.001	<0.001	0.00		53	66	16
D3A-87-166				<0.001	<0.001	<0.001	0.01		21	54	39
D3A-87-167				<0.001	<0.001	<0.001	0.01		17	41	6
D4-87-196				<0.001	0.001	<0.001	0.07		217	461	416
D4-87-197				<0.001	<0.001	<0.001	0.01		77	468	124

AURCHEM RESOURCES

Data Listing

Sample Identifier				Gold +150	Gold -150	Gold Weig		Silver -A	Lead	Zinc	Arsenic
SAMPID	AUP	AUM	AUAV	AUP152	AUM152	AU_AV2	AG	AG2	PB	ZN1	AS
	OPT	OPT	OPT	OPT	OPT	OPT	OPT	OPT	PPM	PPM	PPM
D4-87-198				0.001	0.001	0.001	0.11		287	515	288
D4-87-199				0.001	0.001	0.001	0.05		134	593	94
D4-87-200				<0.001	<0.001	<0.001	0.02		78	478	107
D4-87-201				0.001	<0.001	<0.001	0.00		29	413	76
D4-87-202				<0.001	<0.001	<0.001	0.01		47	147	37
D4-87-203				<0.001	<0.001	<0.001	0.02		32	233	90
D4-87-204				<0.001	0.001	<0.001	0.08		130	266	192
D4-87-205				0.002	0.001	0.001	0.04		116	600	174
D4-87-206				0.002	0.002	0.002	0.12		289	208	134
D4-87-207				0.004	0.003	0.003	0.11		454	170	244
D4-87-208				0.062	0.036	0.038	1.59	0.37	1520	512	984
D4-87-209				0.054	0.041	0.042	1.33	0.34	1580	628	1384
D4-87-210				0.038	0.029	0.030	0.37		684	724	1248
D4-87-211				0.022	0.018	0.018	0.16		282	694	704
D4-87-212				0.093	0.103	0.103	0.26		303	276	936
D4-87-213				0.065	0.103	0.101	0.22		314	497	980
D4-87-214				0.003	0.004	0.004	0.22		348	706	320
D4-87-215				0.002	0.002	0.002	0.09		140	203	124
D4-87-216				<0.001	0.001	<0.001	0.05		138	585	152
D4-87-217				<0.001	0.001	<0.001	0.01		68	219	92
D4-87-218				<0.001	<0.001	<0.001	0.00		48	106	62
D4-87-219				<0.001	<0.001	<0.001	0.01		21	106	27
D4-87-220				<0.001	<0.001	<0.001	0.01		26	201	53
D4-87-221				<0.001	<0.001	<0.001	0.04		302	272	88
D4-87-222				<0.001	<0.001	<0.001	0.03		167	323	104
D4-87-223				<0.001	<0.001	<0.001	0.01		25	251	67
D4-87-224				<0.001	<0.001	<0.001	0.02		52	129	60
D4-87-225				<0.001	<0.001	<0.001	0.01		26	1385	41
D4-87-226				<0.001	0.001	<0.001	0.02		47	267	119
D4-87-227				0.001	0.003	0.003	0.05		187	423	160
D4-87-228				<0.001	0.001	<0.001	0.01		18	76	18
D4-87-229				<0.001	<0.001	<0.001	0.00		31	101	20
D4-87-230				<0.001	<0.001	<0.001	0.00		26	106	26
D4-87-231				0.001	0.001	0.001	0.03		117	261	118
D4-87-232				<0.001	<0.001	<0.001	0.01		176	334	26
D4-87-233				<0.001	<0.001	<0.001	0.00		17	68	27
D4-87-234				0.003	0.002	0.002	0.04		217	163	186
D4-87-235				<0.001	<0.001	<0.001	0.00		60	75	43
D4-87-236				0.001	<0.001	<0.001	0.00		91	94	100
D4-87-237				0.004	0.004	0.004	0.04		313	307	1576
D4-87-238				0.002	0.002	0.002	0.00		97	154	1312
D4-87-239				0.001	<0.001	<0.001	0.03		604	780	101
D4-87-240				0.012	0.008	0.008	0.12		260	309	146
D4-87-241				0.004	<0.001	<0.001	0.00		33	69	13
D4-87-242				<0.001	0.003	0.003	0.11		609	463	896
D4-87-243				0.004	<0.001	<0.001	0.00		73	140	49
D4-87-244				0.008	0.003	0.003	0.08		499	927	992
D4-87-245				<0.001	0.005	0.004	0.02		204	403	1424
D4-87-246				<0.001	<0.001	<0.001	0.00		21	106	41
D4-87-247				<0.001	0.001	<0.001	0.01		44	97	21

AURCHEM RESOURCES

Data Listing

Sample Identifier				Gold +150	Gold -150	Gold Weig		Silver -A	Lead	Zinc	Arsenic
SAMPID	AUP	AUM	AUAV	AUP152	AUM152	AU_AV2	AG	AG2	PB	ZN1	AS
	OPT	OPT	OPT	OPT	OPT	OPT	OPT	OPT	PPM	PPM	PPM
D4-87-248				0.002	0.001	0.001	0.03		330	343	274
D4-87-249				<0.001	<0.001	<0.001	0.00		38	86	20
D4-87-250				<0.001	<0.001	<0.001	0.00		27	77	25
D4-87-251				<0.001	<0.001	<0.001	0.00		40	79	47
D5-87-168				<0.001	0.003	0.003	0.01		56	307	38
D5-87-169				<0.001	0.001	<0.001	0.02		55	200	32
D5-87-170				<0.001	<0.001	<0.001	0.02		62	209	63
D5-87-171				<0.001	<0.001	<0.001	0.02		25	105	31
D5-87-172				0.001	0.002	0.002	0.02		22	117	24
D5-87-173				0.002	0.005	0.005	0.13		243	288	840
D5-87-174				0.001	0.002	0.002	0.04		76	136	310
D5-87-175				0.002	0.002	0.002	0.04		37	90	270
D5-87-176				<0.001	0.003	0.003	0.02		79	2230	164
D5-87-177				<0.001	0.001	<0.001	0.03		44	207	480
D5-87-178				<0.001	0.002	0.002	0.01		30	108	137
D5-87-179				0.025	0.034	0.033	0.04		32	86	1108
D5-87-180				0.020	0.004	0.005	0.01		60	109	968
D5-87-181				0.002	0.005	0.005	0.00		38	94	104
D5-87-182				0.004	0.004	0.004	0.06		17	102	106
D5-87-183				<0.001	0.002	0.002	0.00		19	87	65
D5-87-184				<0.001	0.014	0.012	0.02		22	77	52
D5-87-185				<0.001	<0.001	<0.001	0.00		22	64	43
D5-87-186				<0.001	0.001	<0.001	0.00		12	56	12
D5-87-187				<0.001	0.007	0.006	0.00		15	65	18
D5-87-188				0.002	0.006	0.006	0.00		16	92	10
D5-87-189				0.005	0.007	0.007	0.04		23	156	52
D5-87-190				0.001	0.002	0.002	0.01		35	101	26
D5-87-191				<0.001	<0.001	<0.001	0.01		55	98	15
D5-87-192				<0.001	<0.001	<0.001	0.02		77	327	8
D5-87-193				0.002	0.002	0.002	0.02		36	99	110
D5-87-194				<0.001	<0.001	<0.001	0.01		34	70	6
D5-87-195				<0.001	<0.001	<0.001	0.00		17	39	5
D7-87-32	0.000	0.004	0.003				0.01		72	103	22
D7-87-33	0.000	0.000	0.000				0.01		70	144	49
D7-87-34	0.001	0.000	0.000				0.03		74	306	232
D7-87-35	0.001	0.001	0.001				0.02		43	183	580
D7-87-36	0.001	0.000	0.000				0.01		60	178	218
D7-87-37	0.000	0.000	0.000				0.00		40	70	131
D7-87-38	0.000	0.001	0.001				0.00		25	61	240
D7-87-39	0.000	0.003	0.003				0.01		53	15	248
D7-87-40	0.004	0.001	0.001				0.21		923	1179	>2000
D7-87-41	0.000	0.002	0.002				0.02		121	121	94
D7-87-42	0.002	0.002	0.002				0.00		38	162	160
D7-87-43	0.000	0.001	0.001				0.02		90	78	38
D7-87-44	0.012	0.001	0.002				0.03		111	49	>2000
D7-87-45	0.000	0.000	0.000				0.00		21	72	40
D7-87-46	0.000	0.000	0.000				0.00		39	40	7
D7-87-47	0.001	0.001	0.001				0.01		60	109	33
D7-87-48	0.245	0.000	0.025				3.20		12100	14900	1240
D7-87-49	0.003	0.002	0.002				0.10		416	393	236

AURCHEM RESOURCES

Data Listing

Sample Identifier				Gold +150	Gold -150	Gold Weig		Silver -A	Lead	Zinc	Arsenic
SAMPID	AUP	AUM	AUAV	AUP152	AUM152	AU_AV2	AG	AG2	PB	ZN1	AS
	OPT	OPT	OPT	OPT	OPT	OPT	OPT	OPT	PPM	PPM	PPM
D7-87-50	0.001	0.001	0.001				0.09		437	291	119
D7-87-51	0.001	0.006	0.005				0.01		42	78	34
D7-87-52	0.001	0.005	0.004				0.01		41	66	85
D7-87-53	0.000	0.012	0.010				0.00		21	55	12
D7-87-54	0.003	0.000	0.000				0.20		919	7070	648
D7-87-55	0.005	0.001	0.001				0.64		3410	10640	1368
D7-87-56	0.003	0.001	0.001				0.12		1270	1760	101
D7-87-57	0.000	0.001	0.001				0.03		117	196	56
D7-87-58	0.004	0.000	0.000				0.02		53	298	40
D7-87-59	0.001	0.001	0.001				0.10		201	210	314
D7-87-60	0.001	0.001	0.001				0.02		66	113	50
D7-87-61	0.041	0.000	0.004				0.05		81	192	>2000
D7-87-62	0.006	0.001	0.001				0.04		60	62	159
D7-87-63	0.005	0.001	0.001				0.13		306	296	296
D7-87-64	0.002	0.001	0.001				0.12		476	504	976
D7-87-65	0.001	0.002	0.002				0.06		90	106	162
D7-87-66	0.002	0.002	0.002				0.01		23	49	712
D7-87-67	0.001	0.002	0.002				0.02		23	53	64
D7-87-68	0.000	0.000	0.000				0.00		13	35	9
D7-87-69	0.001	0.001	0.001				0.00		23	121	156
D7-87-70	0.000	0.000	0.000				0.00		12	93	31
D7-87-71	0.000	0.000	0.000				0.00		8	77	6
D7-87-72	0.000	0.000	0.000				0.00		10	55	12
D7-87-73	*.***	0.001	*.***				0.00		10	47	12
D7-87-74	0.000	0.001	0.001				0.00		7	44	12
D7-87-75	0.001	0.001	0.001				0.00		11	46	13
D7A-87-285				<0.001	<0.001	<0.001	0.01		29	93	13
D7A-87-286				<0.001	<0.001	<0.001	0.01		33	103	10
D7A-87-287				<0.001	<0.001	<0.001	0.00		36	150	7
D7A-87-288				<0.002	<0.001	<0.001	0.00		11	55	10
D7A-87-289				0.003	0.003	0.003	0.00		9	58	19
D7A-87-290				0.002	0.002	0.002	0.00		24	74	11
D7A-87-291				0.001	0.001	<0.001	0.01		12	62	7
D7A-87-292				0.002	0.001	0.001	0.00		15	60	9
D7A-87-293				0.001	0.002	0.002	0.01		41	75	27
D7A-87-294				0.003	0.002	0.002	0.01		41	90	66
D7A-87-295				0.004	0.005	0.005	0.05		64	100	128
D7A-87-296				0.009	0.002	0.002	0.01		56	102	107
D7A-87-297				0.002	0.002	0.002	0.02		50	94	78
D7A-87-305				0.002	<0.001	<0.001	0.01		23	115	62
D8-87-444				<0.001	0.018	0.016	0.02		55	125	58
D8-87-445				<0.001	<0.001	<0.001	0.03		88	74	6
D8-87-446				<0.001	<0.001	<0.001	0.02		33	73	9
D8-87-447				<0.001	<0.001	<0.001	0.02		43	66	15
D8-87-448				<0.001	<0.001	<0.001	0.02		28	64	22
D8-87-449				<0.001	<0.001	<0.001	0.02		37	58	9
D8-87-450				<0.001	<0.001	<0.001	0.03		19	55	41
D8-87-451				<0.001	<0.001	<0.001	0.01		23	57	33
D8-87-452				<0.001	<0.001	<0.001	0.02		22	51	39
D8-87-453				<0.001	<0.001	<0.001	0.00		23	57	23

AURCHEM RESOURCES

Data Listing

Sample Identifier				Gold +150	Gold -150	Gold Weig		Silver -A	Lead	Zinc	Arsenic
SAMPID	AUP OPT	AUM OPT	AUAV OPT	AUP152 OPT	AUM152 OPT	AU_AV2 OPT	AG OPT	AG2 OPT	PB PPM	ZN1 PPM	AS PPM
D8-87-454				0.001	<0.001	<0.001	0.02		32	61	46
D8-87-455				<0.001	<0.001	<0.001	0.01		37	122	146
D8-87-456				<0.001	0.001	<0.001	0.02		22	78	87
D8-87-457				<0.001	<0.001	<0.001	0.02		20	40	15
D8-87-458				<0.001	<0.001	<0.001	0.01		19	77	54
D8-87-459				<0.001	<0.001	<0.001	0.01		21	43	6
D8-87-460				<0.001	<0.001	<0.001	0.02		26	61	7
D8-87-461				0.010	0.011	0.011	0.45		1870	7420	>2000
D8-87-462				<0.001	<0.001	<0.001	0.04		103	171	86
D8-87-463				0.020	0.027	0.026	0.62		7520	16050	>2000
D8-87-464				<0.001	0.001	<0.001	0.05		265	610	394
D8-87-465				0.001	<0.001	<0.001	0.08		273	458	342
D8-87-466				<0.001	0.001	<0.001	0.04		140	133	158
D8-87-467				0.001	0.001	0.001	0.06		113	111	1272
D8-87-468				<0.001	<0.001	<0.001	0.03		60	83	136
D8-87-469				<0.001	<0.001	<0.001	0.02		36	53	24
D8-87-470				<0.001	<0.001	<0.001	0.02		48	60	16
D8-87-471				<0.001	<0.001	<0.001	0.02		46	85	19
D8-87-472				0.002	<0.001	<0.001	0.02		59	86	22
D8-87-473				<0.001	<0.001	<0.001	0.03		27	72	16
D8-87-474				<0.001	<0.001	<0.001	0.01		32	71	15
D8-87-475				<0.001	<0.001	<0.001	0.02		37	96	26
D8-87-476				<0.001	<0.001	<0.001	0.03		31	142	43
D8-87-477				<0.001	<0.001	<0.001	0.02		27	186	32
D8-87-478				<0.001	<0.001	<0.001	0.01		54	218	40
D8-87-479				<0.001	<0.001	<0.001	0.00		19	68	12
D8-87-480				<0.001	<0.001	<0.001	0.00		17	72	9
D8-87-481				<0.001	<0.001	<0.001	0.01		16	77	17
D8-87-482				<0.001	<0.001	<0.001	0.00		12	73	5
D8-87-483				<0.001	<0.001	<0.001	0.05		67	405	41
D8-87-484				<0.001	<0.001	<0.001	0.02		42	181	16
D8-87-485				<0.001	<0.001	<0.001	0.16		153	238	18
D8-87-486				<0.001	<0.001	<0.001	0.00		14	115	7
D8-87-487(A)				<0.001	<0.001	<0.001	0.00		34	126	12
D8-87-487(B)				<0.001	<0.001	<0.001	0.01		23	203	21
D8-87-488				<0.001	<0.001	<0.001	0.00		23	78	12
D9-87-298				<0.001	<0.001	<0.001	0.00		15	89	35
D9-87-299				0.002	<0.001	<0.001	0.00		10	68	31
D9-87-300				0.001	0.002	0.002	0.00		14	154	53
D9-87-301				0.001	<0.001	<0.001	0.01		39	595	45
D9-87-302				<0.001	<0.001	<0.001	0.00		9	77	14
D9-87-303				0.001	<0.001	<0.001	0.00		12	52	6
D9-87-304				<0.001	0.002	0.002	0.00		9	39	8
D9-87-305				0.005	0.006	0.006	0.08		874	822	1694
D9-87-306				0.001	<0.001	<0.001	0.01		42	103	55
D9-87-307				<0.001	<0.001	<0.001	0.01		24	56	960
D9-87-308				0.002	0.001	0.001	0.01		4040	4685	16
D9-87-309				0.001	<0.001	<0.001	1.02		186	426	80
D9-87-310				<0.001	<0.001	<0.001	0.00		28	63	13
D9-87-311				<0.001	<0.001	<0.001	0.00		23	93	16

AURCHEM RESOURCES

Data Listing

Sample Identifier				Gold +150	Gold -150	Gold Weig		Silver -A	Lead	Zinc	Arsenic
SAMPID	AUP OPT	AUM OPT	AUAV OPT	AUP152 OPT	AUM152 OPT	AU_AV2 OPT	AG OPT	AG2 OPT	PB PPM	ZN1 PPM	AS PPM
D9-87-312				0.002	0.002	0.002	0.01		78	319	128
D9-87-313				<0.001	0.001	<0.001	0.03		10	47	4
D9-87-314				<0.001	<0.001	<0.001	0.01		12	56	8
D9-87-315				0.004	0.001	0.001	0.00		44	84	266
D9-87-316				0.025	0.013	0.014	0.02		70	101	52
D9-87-317				<0.001	0.001	<0.001	0.04		54	179	30
D9-87-318				0.002	0.001	0.001	0.04		121	185	67
D9A-87-319				0.004	0.005	0.005	0.07		329	306	720
D9A-87-320				<0.001	0.001	<0.001	0.01		16	134	41
D9A-87-321				0.001	0.001	<0.001	0.01		14	109	18
D9A-87-322				0.001	0.001	0.001	0.02		23	106	24
D9A-87-323				<0.001	<0.001	<0.001	0.01		14	197	49
D9A-87-324				0.420	0.021	0.027	0.12		88	295	1248
D9A-87-325				0.004	0.002	0.002	0.03		64	394	133
D9A-87-326				<0.001	<0.001	<0.001	0.02		33	275	96
D9A-87-327				0.001	<0.001	<0.001	0.00		39	763	209
D9A-87-329				0.003	0.002	0.002	0.02		63	331	75
D9A-87-330				0.001	0.002	0.002	0.02		58	403	116
D9A-87-331				0.003	0.002	0.002	0.02		123	530	656
D9A-87-332				0.004	0.004	0.004	0.07		575	1042	1512
D9A-87-333				0.001	0.002	0.002	0.03		139	312	896
D9A-87-334				0.001	0.001	0.001	0.01		29	143	37
D9A-87-335				0.001	<0.001	<0.001	0.00		10	42	7
D9A-87-336				0.002	0.003	0.003	0.01		12	51	16
D9A-87-337				0.001	<0.001	<0.001	0.00		14	45	11
D9A-87-338				0.001	0.001	0.001	0.02		42	135	37
D9A-87-339				0.003	0.002	0.002	0.04		66	97	129
D9A-87-340				0.185	0.035	0.040	0.08		69	64	33
D9A-87-341				0.002	0.001	0.001	0.02		28	43	27
D9A-87-342				0.001	<0.001	<0.001	0.01		12	45	<2
D9A-87-343				0.002	0.001	0.001	0.09		71	167	8
D9B-87-344				0.004	0.002	0.002	0.01		11	159	21
D9B-87-345				0.001	0.002	0.002	0.01		14	50	14
D9B-87-346				0.002	0.002	0.002	0.01		21	49	17
D9B-87-347				0.002	0.003	0.003	0.01		9	46	19
D9B-87-348				0.001	0.001	0.001	0.00		10	41	6
D9B-87-349				0.002	<0.001	<0.001	0.01		11	37	3
D9B-87-350				0.001	0.001	<0.001	0.01		11	43	10
D9B-87-351				0.002	0.003	0.003	0.02		20	42	24
D9B-87-352				0.002	0.003	0.003	0.02		17	46	34
D9B-87-353				0.001	0.002	0.002	0.42		4440	58	40
D9B-87-354(A)				0.002	0.004	0.004	0.04		100	43	24
D9B-87-354(B)				0.024	0.019	0.019	0.11		89	70	187
D9B-87-356				0.002	0.001	0.001	0.02		43	56	26
D9B-87-357				<0.001	<0.001	<0.001	0.02		23	49	44
D9B-87-358				0.002	0.010	0.009	0.03		25	59	82
D9B-87-359				<0.001	0.002	0.002	0.01		18	47	20
D9B-87-360				<0.001	<0.001	<0.001	0.03		180	48	40
D9B-87-361				<0.001	<0.001	<0.001	0.01		35	40	60
D9B-87-362				<0.001	<0.001	<0.001	0.02		61	43	28

AURCHEM RESOURCES

Data Listing

Sample Identifier				Gold +150	Gold -150	Gold Weig		Silver -A	Lead	Zinc	Arsenic
SAMPID	AUP OPT	AUM OPT	AUAV OPT	AUP152 OPT	AUM152 OPT	AU_AV2 OPT	AG OPT	AG2 OPT	PB PPM	ZN1 PPM	AS PPM
D9B-87-363				0.015	0.015	0.015	0.07		58	51	179
D9B-87-364				<0.001	<0.001	<0.001	0.01		29	56	53
D9B-87-365				<0.001	0.023	0.021	0.02		18	52	43
D9B-87-366				<0.001	0.003	0.003	0.01		20	47	35
D9B-87-367				<0.001	0.002	0.002	0.04		423	99	24
D9B-87-368				0.004	<0.001	<0.001	0.02		65	43	24
D9B-87-369				<0.001	<0.001	<0.001	0.01		41	46	21
D9B-87-370				0.006	0.004	0.004	0.02		25	68	49
D9B-87-371				0.005	0.004	0.004	0.10		841	41	111
D9B-87-372				0.006	0.008	0.008	0.03		112	25	83
D9B-87-373				0.009	0.015	0.014	0.03		66	39	99
D9B-87-374				0.005	0.011	0.010	0.05		42	59	174
D9B-87-375				0.028	0.026	0.026	0.29		51	119	272
D9B-87-376				0.009	0.010	0.010	0.07		32	50	320
D9B-87-377				0.063	0.063	0.063	0.05		27	51	186
D9B-87-378				0.099	0.040	0.045	0.15		61	15	183
D9B-87-379				<0.001	0.002	0.002	0.02		24	67	39
D9B-87-380				0.001	0.001	0.001	0.01		19	61	42
D9C-87-381				0.001	0.001	0.001	0.03		94	137	171
D9C-87-382				0.013	0.014	0.014	0.08		102	119	>2000
D9C-87-383				0.036	0.053	0.052	0.26		315	323	>2000
D9C-87-384				0.033	0.037	0.037	0.23		266	95	>2000
D9C-87-385				0.007	0.007	0.007	0.10		97	134	1184
D9C-87-386				<0.001	<0.001	<0.001	0.01	<0.01	28	207	134
D9C-87-387				<0.001	<0.001	<0.001		<0.01	114	211	1324
D9C-87-388				0.001	0.001	0.001		0.01	28	333	131
D9C-87-389				0.002	0.006	0.006		0.42	1710	170	1064
D9C-87-390				0.028	0.045	0.043		0.36	1900	106	624
D9C-87-391				0.019	0.036	0.034		0.91	6300	74	1624
D9C-87-392				0.002	0.012	0.011		1.68	9770	98	1876
D9C-87-393				0.085	0.028	0.033		0.88	2590	86	920
D9C-87-394				0.020	0.016	0.016		0.37	2120	433	888
D9C-87-395				0.003	0.011	0.010		0.11	1910	114	268
D9C-87-396				0.005	0.017	0.016		0.78	4150	750	1813
D9C-87-397				0.001	0.001	0.001		<0.01	69	116	1312
D9C-87-398				<0.001	<0.001	<0.001		<0.01	65	571	36
D9C-87-399				<0.001	<0.001	<0.001		<0.01	22	135	25

APPENDIX III

Footages of Assay Results

Drill Hole	Footage
D1-87-1	10 - 11
-2	18 - 22
-3	26 - 30
-4	39 - 42
-5	48 - 50

Drill Hole	Footage
D1A-87-6	0 - 5
-7	5 - 10
-8	10 - 15
-9	15 - 20
-10	20 - 25
-11	25 - 30
-12	36 - 41
-13	41 - 46
-14	51 - 56
-15	56 - 61
-16	61 - 63
-17	63 - 64
-18	64 - 70
-19	73 - 77
-20	77 - 82
-21	87 - 92
-22	111 - 117
-23	117 - 122
-24	133 - 138
-25	138 - 142
-26	145 - 150
-27	160 - 165
-28	167 - 172
-29	173 - 178
-30	178 - 183
-31	189 - 194

Drill Hole	Footage
D1B-87-400	15.6 - 18.5
-401	18.5 - 21
-402	21 - 23.3
-403	23.3 - 27.6
-404	27.6 - 30
-405	30 - 33.3
-406	45 - 48.3
-407	48.3 - 50.7
-408	62 - 64
-409	68.3 - 69.6
-410	69.6 - 73
-411	74 - 76
-412	79 - 80
-413	80 - 84
-414	84 - 87
-415	87 - 92.9
-416	92.9 - 94
-417	98.4 - 100
-418	100 - 101
-419	101 - 102
-420	102 - 103
-421	103 - 104
-422	104 - 105.3
-423	105.3 - 110
-424	110 - 114
-425	114.8 - 118
-426	118 - 122
-427	122 - 123.6
-428	123.6 - 126
-429	126 - 128
-430	128 - 130.5
-431	130.5 - 135
-432	135 - 138
-433	138 - 143.5
-434	143.5 - 148
-435	148 - 153
-436	165 - 167.5
-437	167.5 - 170
-438	170 - 173
-439	173 - 175
-440	175 - 181
-441	181 - 187.5
-442	187.5 - 188.5
-443	191 - 196

Drill Hole	Footage
D2-87-76	8 - 13
-77	13 - 18
-78	19 - 24
-79	24 - 31.5
-80	40 - 45.3
-81	47.5 - 52
-82	70 - 74
-83	74 - 77
-84	77 - 80
-85	80 - 86
-86	86 - 92
-87	92 - 94
-88	94 - 95.6
-89	113.5 - 118
-90	118 - 119
-91	126 - 129.3
-92	133 - 138
-93	138 - 140
-94	156 - 159
-95	178 - 182
-96	185 - 187
-97	207.5 - 208.5
-98	208.5 - 213
-99	230 - 235
-100	249 - 251.5
-101	252 - 257
-102	260 - 265
-103	268 - 272
-104	272 - 275.3
-105	275.3 - 278
-106	278 - 281
-107	281 - 284
-108	284 - 285.4
-110	288.2 - 293
-111	293 - 298
-112	302.8 - 303.9
-113	307.5 - 308
-114	319 - 324

Drill Hole	Footage
D3-87-115	41 - 44
-116	63 - 68
-117	70 - 74
-118	76.5 - 78
-119	82.5 - 85
-120	85 - 89.5
-121	89.5 - 92
-122	92 - 95
-123	95 - 97
-124	97 - 99
-125	99 - 102.3
-126	102.3 - 104
-127	104 - 109
-128	109 - 114
-129	118 - 123

Drill Hole	Footage
D3A-87-130	16 - 21
-131	25 - 29
-132	29 - 33.3
-133	33.3 - 38
-134	38 - 43
-135	43 - 49.5
-136	49.5 - 54
-137	54 - 59
-138	60.4 - 63
-139	63 - 66.3
-140	66.3 - 70
-142	71 - 73
-143	80 - 84.5
-144	86.5 - 90
-145	92 - 97
-146	98.5 - 101
-147	101 - 106
-148	106 - 110
-149	110 - 115
-150	115 - 121
-151	121 - 126
-152	126 - 130
-153	130 - 133
-154	133 - 138
-155	138 - 143
-156	148.5 - 153
-157	153 - 157
-158	157 - 162
-159	177 - 178.3
-160	183.3 - 185.5
-161	166 - 168.5
-162	197.3 - 201
-163	203 - 205
-164	205 - 206
-166	221.8 - 226.8
-167	226.8 - 231

Drill Hole	Footage
D4-87-196	3 - 8
-197	8 - 13
-198	13 - 18
-199	18 - 23
-200	23 - 28
-201	28 - 33.0
-202	34.7 - 38.7
-203	38.7 - 43
-204	43 - 48
-205	48 - 53
-206	53 - 58
-207	58 - 62
-208	62 - 65
-209	65 - 68
-210	68 - 71
-211	71 - 75
-212	75 - 78
-213	78 - 81
-214	81 - 86
-215	86 - 92
-216	92 - 94
-217	94 - 99
-218	99 - 103
-219	105 - 111
-220	111 - 115
-221	115 - 120
-222	120 - 125
-223	125 - 130
-224	130 - 135
-225	141 - 143.8
-226	143.8 - 148
-227	148 - 153
-228	155 - 160
-229	160 - 165
-230	165 - 170
-231	170 - 175
-232	175 - 180
-233	185 - 188
-234	191 - 196
-235	196 - 201
-236	201 - 204
-237	204 - 208
-238	208 - 211
-239	211 - 214
-240	214 - 221
-241	221 - 224
-242	224 - 228
-243	228 - 230.5
-244	230.5 - 233
-245	233 - 234.8
-246	234.8 - 235.7
-247	235.7 - 241.5
-248	241.5 - 244.5
-249	244.5 - 251
-250	251 - 254
-251	254 - 260

Drill Hole	Footage
D5-87-168	18 - 23
-169	23 - 26
-170	26 - 32
-171	32 - 37
-172	37 - 42
-173	42 - 48
-174	48 - 53
-175	53 - 58
-176	59 - 64
-177	64 - 69
-178	69 - 74
-179	74 - 79
-180	79 - 84
-181	84 - 88
-182	88 - 93
-183	93 - 97
-184	97 - 103
-185	103 - 104.8
-186	104.8 - 108
-187	117.6 - 119
-188	120 - 121.3
-189	121.3 - 123
-190	123 - 128
-191	128 - 135
-192	135 - 140
-193	143.5 - 148
-194	151 - 156
-195	159 - 162

Drill Hole	Footage
D7-87-32	8 - 13
-33	14 - 20
-34	21 - 22.3
-35	27.4 - 31.5
-36	39.8 - 44
-37	44 - 45.5
-38	48 - 52
-39	52 - 57
-40	57 - 57.5
-41	57.5 - 60
-42	64 - 68
-43	71 - 73
-44	76 - 77
-45	82 - 87
-46	91 - 94
-47	108.5 - 118
-48	120 - 121
-49	121 - 126
-50	126 - 132
-51	132 - 137
-52	137 - 142
-53	142 - 144.8
-54	144.8 - 146.3
-55	146.3 - 148
-56	148 - 150.8
-57	150.8 - 152
-58	152 - 157.3
-59	157.3 - 162
-60	162 - 166
-61	166 - 170.5
-62	170.5 - 174
-63	174 - 177
-64	177 - 180
-65	180 - 183
-66	183 - 188
-67	188 - 192
-68	196 - 201
-69	202.8 - 209.5
-70	209.5 - 215
-71	215 - 220
-72	220 - 225
-73	225 - 230
-74	230 - 235
-75	235 - 240

Drill Hole	Footage
D7A-87-285	20.5 - 25
-286	29 - 32
-287	32 - 34
-288	34 - 39
-289	39 - 44
-290	44 - 49
-291	49 - 54
-292	54 - 56
-293	56 - 61
-294	61 - 67
-295	67 - 70
-296	40 - 71
-305	40 - 71

Drill Hole	Footage
D8-87-444	8.6 - 11
-445	17 - 22
-446	27.5 - 30
-447	30 - 32.8
-448	33.4 - 36
-449	36 - 37.3
-450	39 - 42
-451	45.5 - 47.5
-452	51 - 54
-453	54 - 57
-454	59.8 - 62.5
-455	62.5 - 67
-456	67 - 71
-457	74.2 - 76.5
-458	84.5 - 88.4
-459	101 - 105
-460	132 - 135
-461	141.5 - 143.3
-462	143.3 - 145
-463	145 - 146
-464	146 - 147.5
-465	147.5 - 149
-466	149 - 150
-467	150 - 151
-468	151 - 153
-469	153 - 155
-470	155 - 157.2
-471	158 - 162
-472	162 - 163.8
-473	163.8 - 167
-474	167 - 171.8
-475	171.8 - 173
-476	173 - 175
-477	175 - 177
-478	177 - 179
-479	179 - 180.5
-480	180.5 - 185
-481	186.5 - 189
-482	189 - 191
-483	191 - 193.5
-484	193.5 - 197.6
-485	197.6 - 200
-486	200 - 203.4
-487	203.4 - 206
-488	206 - 211
-489	211 - 217

Drill Hole	Fcotage
D9-87-298	16 - 20
-299	20 - 23
-300	47.5 - 51.5
-301	54 - 58
-302	62 - 67
-303	67 - 70
-304	70 - 73.5
-305	73.5 - 76.3
-306	76.3 - 80
-307	80 - 83
-308	83 - 86
-309	86 - 91
-310	91 - 95.5
-311	95.5 - 96.5
-312	96.5 - 99.8
-313	99.8 - 105
-314	105 - 110
-315	110 - 116
-316	116 - 120
-317	120 - 125
-318	125 - 130

Drill Hole	Footage
D9A-87-319	7 - 8
-320	8 - 13
-321	13 - 18
-322	18 - 23
-323	23 - 28
-324	28 - 32
-325	32 - 36
-326	36 - 39
-327	39 - 44.5
-329	44.5 - 49
-330	49 - 53
-331	53 - 56.3
-332	56.3 - 58.5
-333	58.5 - 62.5
-334	62.5 - 68
-335	75 - 82.2
-336	82.2 - 85
-337	85 - 89
-338	89 - 94
-339	94 - 99
-340	99 - 103
-341	103 - 108
-342	108 - 113
-343	113 - 117

Drill Hole	Footage
D9B-87-344	6 - 14
-345	14 - 19
-346	19 - 22
-347	22 - 25.4
-348	25.4 - 30
-349	30 - 35
-350	35 - 39
-351	39 - 42
-352	43 - 45
-353	45 - 50
-354	50 - 51
-355	51 - 55
-356	55 - 57
-357	57 - 63
-358	63 - 66.5
-359	66.5 - 69
-360	69 - 74
-361	74 - 79
-362	79 - 84.5
-363	84.5 - 85.5
-364	85.5 - 90
-365	92 - 97
-366	97 - 102
-367	102 - 107
-368	107 - 112
-369	112 - 117
-370	117 - 119
-371	119 - 121
-372	121 - 123
-373	123 - 125
-374	125 - 127
-375	127 - 129
-376	129 - 131
-377	131 - 133
-379	135.5 - 140
-380	145 - 150

Drill Hole	Footage
D9C-87-381	0 - 9
-382	9 - 12
-383	12 - 13
-384	13 - 14
-385	14 - 15
-386	15 - 18.5
-387	18.5 - 20
-388	20 - 22.3
-389	22.3 - 24
-390	24 - 25
-391	25 - 26
-392	26 - 27
-393	27 - 28
-394	28 - 29
-395	29 - 30
-396	30 - 31
-397	31 - 33.2
-398	33.2 - 36.5
-399	36.5 - 41

Drill Hole	Footage
D12-87-252	10 - 15
-253	22.5 - 27
-254	27 - 30
-255	35 - 40
-256	48 - 52
-257	55 - 59
-258	59 - 61.1
-259	61.1 - 64.8
-260	64.8 - 71
-261	71 - 74
-262	74 - 79
-263	79 - 84
-264	84 - 89
-265	89 - 94
-266	94 - 99
-267	99 - 103
-268	103 - 105
-269	105 - 106
-270	106 - 107
-271	107 - 109.1
-272	109.1 - 110
-273	110 - 111
-274	111 - 112
-275	112 - 113.1
-276	113.1 - 114
-277	114 - 115.3
-278	115.3 - 117.6
-279	117.6 - 122.6
-280	123 - 128
-281	129 - 134
-282	134 - 134.6
-283	134.6 - 135
-284	135 - 149

091958

DISCOVERY CREEK PROJECT – YUKON

base line

mag. decl'n 33·5 west

L24+00N.
L22+00N.
L20+00N.
L18+00N.
L16+00N.
L14+00N.
L12+00N.
L10+00N.
L8+00N.
L6+00N.
L4+07N.
L1+90N.
L0+00
L1+96S.
L4+16S.
L6+50S.
L8+60S.
L10+06S.
L12+38S.
L14+33S.
L16+70S.
L18+67S.
L19+67S.
L20+67S.
L22+51S.
L24+11S.
L27+16S.
L29+16S.
L30+50S.
L31+50S.
L32+85S.
L34+10S.
L35+70S.

DDH-87-8
DDH-87-18
DDH-87-1A
DDH-87-1
DDH-87-9
DDH-87-9C
DDH-87-9A
DDH-87-9B
DDH-87-12
DDH-87-2A
DDH-87-7
DDH-87-5
DDH-87-4
DDH-87-3A
DDH-87-3
DDH-87-2

Scale

0 200 400 600
FEET

1 INCH = 200 FEET

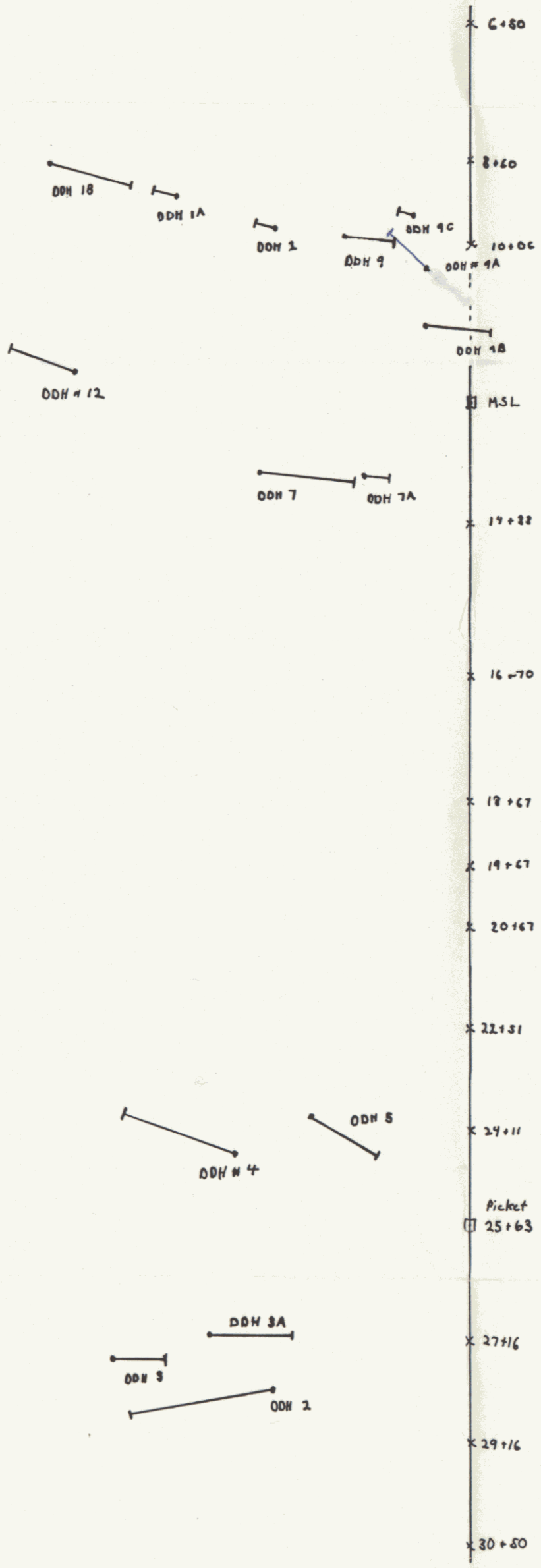
AURCHEM RES. LTD.

1987 DIAMOND DRILL HOLES (126)

NTS. 115I/3	REGION WHITEHORSE
PROV. YUKON	DATE SEPT. 14/87
DATA BY R. SCHNEIDER	DRAWN BY M. LANGDON

Aurchem Exp.
Discovery Creek
Property
Yukon Terr.

North



Drill Hole Location Map

Key
- Drill Hole
- x Base line post
- Basis Posts For Survey

Scale 1" = 200'

1266

Drawn By:
R. Schneider August 1987

LGCS 1

LGCS 1

MYRTLE

WEDGE 6

RICCO

COURTLAND

LGCS 1
LGCS 2

LGCS 2
LGCS 3

LAURA

ACCESS ROAD

WEDGE 5

W10
W15
W9

CAMP

DISCOVERY CREEK

W6
W5
W7
W8

→ TO TRICKERS

5L106

5L90

W15
W16

IDA MAY

Bull 8

WEDGE 10

MACK

WILLOW CREEK

WEDGE8

3L90

LGCS 4

ELIZA CREEK

W7
W8
RAS 3

4L90

WEDGE 7

W10
W15
RAS 1
RAS 2

3L106

77777
77778

RAS 2

MSL

6L106

4L105

WEDGE 15

RAS 3

RAS 1

5L105

8L102

3L102

RAS 1+RAS 2

SUNSET

HAZEL
ANNE

RAS 4

KEY

— Boundry of Surveyed Claims
--- Boundry of Staked Claims
■ Found Post
□ Post (approx. position)

SCALE 1" = 200'

0 200' 400' 600'

N

AURCHEM
RESOURCES LTD.

CLAIM MAP

DISCOVERY CREEK CLAIMS

DATE; SEPT. 17, 1986

DRAWN BY; R. Schneider

1305

091958